

**IN THE UNITED STATES COURT OF APPEALS
FOR THE DISTRICT OF COLUMBIA CIRCUIT**

Intelligent Transportation Society of America and the American Association of State Highway and Transportation Officials,)	
)	
)	
)	Case No.
Petitioners,)	
)	
v.)	
)	
FEDERAL COMMUNICATIONS COMMISSION and THE UNITED STATES OF AMERICA,)	
)	

Respondents.

PETITION FOR REVIEW

Pursuant to 47 U.S.C. § 402(a), 28 U.S.C. §§ 2342(1) and 2344, 5 U.S.C. § 706, and Rule 15(a) of the Federal Rules of Appellate Procedure, Petitioners Intelligent Transportation Society of America (“ITS America”) and the American Association of State Highway and Transportation Officials (“AASHTO”) hereby petition this Court for review of the order of the Federal Communications Commission (“FCC” or “Commission”) captioned as follows: *Use of the 5.850-5.925 GHz Band*, First Report and Order, Further Notice of Proposed Rulemaking, and Order of Proposed Modification, FCC 20-164, ET Docket No. 19-138 (rel. Nov. 20, 2020) (“*Order*”). The *Order* was published in the Federal Register on May 3, 2021. 86 Fed. Reg. 23281. A copy of the *Order* is attached hereto as

Exhibit A. Contemporaneously with this Petition, Petitioners are filing a Notice of Appeal pursuant to 47 U.S.C. § 402(b), which vests jurisdiction with this Court over certain FCC actions related to radio licensing. Because this Court has jurisdiction to hear Petitioners' claims pursuant to § 402(a), § 402(b), or some combination of the two, Petitioners respectfully request that the Court consolidate these appeals into one proceeding.

The Commission's *Order* effects a sweeping change to a 75-MHz band of radiofrequency spectrum that is critical to automotive safety and the future of transportation. First allocated in 1999 pursuant to a statutory directive in the Transportation Equity Act for the 21st Century, the band at 5.850-5.925 GHz (the "5.9 GHz Band" or "Safety Band") has long been reserved for intelligent transportation systems ("ITS") designed to enhance roadway safety and efficiency by enabling vehicles to communicate with each other, roadway infrastructure, and other devices in the proximity of moving vehicles. Pursuant to its statutory responsibilities as set forth in the Act, the Department of Transportation ("DOT") has played a significant role in the testing, development, and deployment of technologies using this frequency band, which initially focused on a technology called dedicated short range communications ("DSRC"). More recently, automotive safety stakeholders have also developed a new ITS technology, cellular

vehicle-to-everything (“C-V2X”) as an alternative or complement to DSRC, and began deploying this technology on an experimental basis.

In the *Order*, the Commission seriously undermined all of the technological progress and investment in the Safety Band by reallocating the majority of the band for unlicensed Wi-Fi operations wholly unrelated to automotive safety. Specifically, the Commission ignored the recommendations of the federal DOT, automotive safety professionals, automobile manufacturers, and state highway officials and reallocated the lower 45 MHz of the band – 60 percent of the spectrum – for unlicensed use. The Commission retained the remaining 30 MHz at the top of the band for ITS, but decided to sunset DSRC and “choos[e] C-V2X as the sole ITS connected vehicle technology.” *Order* ¶¶ 2, 105, 110. The *Order* also initiated a blanket modification of all DSRC licenses consistent with the reallocation. *Id.* ¶ 204.

The Commission’s actions—taken over DOT’s vigorous objection—are in excess of the statutory authority granted to the FCC. The FCC’s decision to reallocate 45 MHz of the 5.9 GHz band for use unrelated to automotive safety curtails the usefulness of the Safety Band, undercuts the goals of the Congressionally-established ITS program, and directly contravenes the recommendations of the agency responsible for designing and overseeing the ITS program. As a result, the *Order* exceeds the Commission’s authority to allocate

spectrum and grant radiofrequency licenses under the Communications Act, as that authority has been limited by Congress's decision to establish a robust ITS program and delegate authority to manage that program exclusively to DOT. By reducing the size of the band by 60 percent and eliminating the ability to use DSRC technologies in the band entirely, the Commission has violated either Section 312 or Section 316 of the Communications Act, as it has either effectively revoked or at a minimum fundamentally changed the licenses held by incumbent DSRC licensees. 47 U.S.C. §§ 312, 316. And because the FCC failed to properly evaluate record evidence related to the safety-related impacts of reallocation and the interference concerns posed by Wi-Fi devices, the *Order* is unlawfully arbitrary and capricious. 5 U.S.C. § 706(2)(A).

Petitioners seek review of the Commission's decision to reallocate the lower 45 MHz of the band and to modify incumbent licenses so as to prohibit the use of that spectrum. Petitioners ask this Court to vacate those portions of the *Order* while leaving intact the Commission's decision to enable entities to obtain licenses to operate C-V2X technologies in the upper 30 MHz of the band, which constitutes a reasonable exercise of the FCC's authority.

This Court has jurisdiction to hear these claims under Section 402 of the Communications Act. 47 U.S.C. § 402. Section 402(b) grants this Court exclusive jurisdiction to hear appeals of certain Commission licensing decisions, including

“[b]y the holder of any construction permit or station license which has been modified or revoked[.]” *Id.* § 402(b)(5). Section 402(a), through incorporation of the Hobbs Act, 28 U.S.C. § 2341 *et seq.*, grants exclusive jurisdiction to the federal court of appeals in which the petition for review is filed. This jurisdiction extends to challenges to “all final orders of the Federal Communications Commission” that are not reviewable under Section 402(b). *Id.* § 2342(1).

The *Order* at issue here has both rulemaking elements and license modifications, and thus Petitioners’ claims collectively appear to invoke the Court’s jurisdiction under both Section 402(a) and Section 402(b). Because this Court has jurisdiction “by the one procedural route or the other,” *Cellco P’ship v. FCC*, 700 F.3d 534, 541 (D.C. Cir. 2012), the Court “need not decide which of these is the proper vehicle” and can simply exercise jurisdiction over the appeal as a whole. *PSSI Global Services, LLC v. Federal Communications Commission*, 983 F.3d 1, 7 (2020). ITS America respectfully requests that the Court consolidate the proceedings initiated by this Petition and the corresponding Notice of Appeal.

Petitioners have associational standing to bring these claims, as both organizations’ members include state highway and transportation departments, and ITS America’s members further include automakers and other automotive safety stakeholders. Petitioners’ members include incumbent DSRC licensees, entities operating DSRC technologies pursuant to FCC regulations, and entities with

interests in deploying C-V2X or other V2X technologies. Those members have relied on the designation of the 5.9 GHz band as an automotive safety band in developing technologies and making investments in connected vehicle applications. Accordingly, Petitioners' members are persons "aggrieved" for purposes of Section 402(a) and the Hobbs Act, 28 U.S.C. § 2344, and are "holder[s] of . . . station license[s] which ha[ve] been modified or revoked by the Commission" for purposes of Section 402(b), 47 U.S.C. § 402(b)(5). As organizations dedicated to advocating for their interests, Petitioners have standing to represent those members in this proceeding. *See, e.g., Nat'l Treasury Emps. Union v. U.S. Merit Sys. Prot. Bd.*, 743 F.2d 895, 910 (D.C. Cir. 1984). ITS America and AASHTO both participated in the rulemaking proceeding from which the *Order* was adopted. *See* 47 U.S.C. § 405(a).

This Petition is timely, as the *Order* was published in the Federal Register on May 3, 2021. *See* 28 U.S.C. § 2344 (establishing a 60-day deadline for filing petitions for review following entry of a final order). Venue is proper pursuant to 28 U.S.C. § 2343.

Respectfully Submitted,

/s/ Joshua S. Turner

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June 2, 2021

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FEDERAL COMMUNICATIONS)	
COMMISSION and THE UNITED)	
STATES OF AMERICA,)	
)	
Respondents.		

RULE 26.1 CORPORATE DISCLOSURE STATEMENT

ITS America states that it is a Section 501(c)(3) not-for-profit corporation organized under the laws of the District of Columbia that is organized to promote and enhance public safety and community welfare by fostering research, development, and implementation of plans and programs to reduce motor vehicle deaths and injuries, improve mobility and accessibility, and to promote, encourage, and advance an intermodal system of safer, more economical, energy efficient and environmentally sound surface transportation through research, development, and implementation of advanced technology. ITS America represents stakeholders across the transportation industry, including state, county, and city departments of transportation, metropolitan planning organizations, automotive manufacturers and

suppliers, technology companies, engineering firms, and research universities. ITS America has not issued any shares or debt securities to the public, and ITS America has no parent companies, subsidiaries, or affiliates that have issued any shares or debt securities to the public. No parent or publicly held company owns 10% or more of ITS America's stock.

The American Association of State Highway and Transportation Officials (AASHTO) states that it is a Section 501(c)(3) not-for-profit corporation organized under the laws of the District of Columbia. AASHTO is a nonpartisan association representing the departments of transportation in the 50 states, the District of Columbia, and Puerto Rico. AASHTO and its member state departments of transportation have a long and respected history of leadership in transportation, working together to ensure a safe, sustainable, multi-modal transportation system that enables mobility, provides improved quality of life and promotes economic growth. AASHTO has not issued any shares or debt securities to the public, and AASHTO has no parent companies, subsidiaries, or affiliates that have issued any shares or debt securities to the public. No parent or publicly held company owns 10% or more of AASHTO's stock.

CERTIFICATE OF COMPLIANCE

1. This document complies with the type-volume limitations of Fed. R. App. P. 27(d)(2) because, excluding the parts of the document exempted by Fed. R. App. P. 32(f), this document contains 298 words.

2. This document complies with the typeface requirements of Fed. R. App. P. 32(a)(5) and the type-style requirements of Fed. R. App. P. 32(a)(6) because this document has been prepared in a proportionally spaced typeface using Microsoft Word 2010 in 14-point Times New Roman.

/s/ Joshua S. Turner
Joshua S. Turner

CERTIFICATE OF SERVICE

I hereby certify that on June 2, 2021, a copy of the foregoing Petition for Review and Corporate Disclosure Statement was served on the following counsel by first-class mail:

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Exhibit A

Before the
Federal Communications Commission
Washington, D.C. 20554

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FIRST REPORT AND ORDER, FURTHER NOTICE OF PROPOSED RULEMAKING, AND
ORDER OF PROPOSED MODIFICATION

Adopted: November 18, 2020

Released: November 20, 2020

Comment Date: 30 days after Federal Register publication
Reply Comment Date: 60 days after Federal Register publication

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II. BACKGROUND

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70See"Amendment of the Commission's Rules to Provide for Operation of Unlicensed NII Devices in the 5 GHz Frequency Range."GV"fqemg"v"p"q0"8/324."Tgrqv"cpf"Qtfgt."34"HEE"TEf"3798"3; ; 9+"U-NII Report and Order+." Og o q t c p f w o " Q r k p q p " c p f " Q t f g t . " 3 5 " H E E " T e f " 3 6 5 7 7 " 3 ; ; : + " g u v c d n k u j k p i " v j g " 7 0 3 7 / 7 0 4 7 " I J | " * W / P K K / 3 + . " v j g " 7 0 4 7 / 7 0 5 7 " I J | " * W / P K K / 4 C + . " c p f " v j g " 7 0 9 4 7 / 7 0 : 4 7 " I J | " * W / P K K / 5 + " d c p f u + = " R e v i s i o n o f P a r t s 2 a n d 1 5 o f t h e C o m m i s s i o n ' s R u l e s t o P e r m i t U n l i c e n s e d N a t i o n a l I n f o r m a t i o n I n f r a s t r u c t u r e (U - N I I) d e v i c e s i n t h e 5 G H z B a n d . " G V " F q e m g v " P q 0 " 2 5 / 3 4 4 . " T g r q t v " c p f " Q t f g t . " 3 : " H E E " T e f " 4 6 6 : 6 " * 4 2 2 5 + " * U - N I I - 2 C R e p o r t a n d O r d e r + " g u v c d n k u j k p i " v j g " 7 0 6 9 / 7 0 9 4 7 " I J | " * W / P K K / 4 E + " d c p f + = " R e v i s i o n o f P a r t 1 5 o f t h e C o m m i s s i o n ' s R u l e s t o P e r m i t U n l i c e n s e d N a t i o n a l I n f o r m a t i o n I n f r a s t r u c t u r e (U - N I I) D e v i c e s i n t h e 5 G H z B a n d . " G V " F q e m g v " P q 0 " 3 5 / 6 ; . " H k t u v " T g r q t v " c p f " Q t f g t . " 4 ; " H E E " T e f " 6 3 4 9 " * 4 2 3 6 + " * U - N I I 5 G H z R e p o r t a n d O r d e r + " c f f k p i " 7 0 : 4 7 / 7 0 : 7 2 " I J | " v q " v j g " 7 0 9 4 7 / 7 0 : 4 7 " I J | " * W / P K K / 5 + " d c p f " c p f " f g h t t k p i " c " f g e k u k q p " q p " y j g v j g t " v q " c m n y " w p n k e g p u g f " f g x k e g u " v q " w u g " v j g " 7 0 5 7 2 / 7 0 6 9 2 " I J | " W / P K K / 4 D " c p f " 7 0 : 7 2 / 7 0 ; 4 7 " I J | " W / P K K / 6 " d c p f u + 0 "" k p " 4 2 3 5 . " v j g " E q o o k u u k q p " d g i c p " v q " t g h t " v q " v j g " W / P K K " d c p f " u g i o g p w u " d { " p w o d g t " v q " o c m g " k v " g c u k g t " h q t " v j g " t g c f g t " v q " h q n n y " W / P K K " f k u e w u k q p u " k p " v j g " t w n g o c m k p i " f q e m g v " c p f " f q e w o g p v u 0 "" See Revision of Part 15 of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-NII) Devices in the 5 GHz Band."GV"fqemg"v"p"q0"35/6; . "Pqvkeg"qh"Rtrqrugf"Twng o cmkpi . "4: "HEE"TEf"398; . "3993."p0"7"4235+"*U-NII 5 GHz NPRM+0"

80See Unlicensed Use of the 6 GHz Band, GV"fqemg"v"p"q0"3:/4; 7- Expanding Flexible Use in Mid-Band Spectrum Between 3.7 and 24 GHz, I P"fqemg"v"p"q0"39/3:5."Tgrqv"cpf"Qtfgt"cpf"Hwtvjgt"Pqvkeg"qh"Rtrqrugf"Twng o cmkpi . "HEE"42/73."57"HEE"TEf"5: 74"4242+"*6 GHz Report and Order+"*wpnkegpugf"wug"qh"70; 47/90347" I J | " * W / P K K / 7 " v q / : + 0 "

*FUTE+ugtxkeg0"Kp"fqkpi"uq."vjg"Eq o o kuukqp"pqvgf"vjg"eqpvgo rqtcpqgwu"gpcev o gpv"qh"vjg" Vtcurqtvcvkqp"Gswkv{"Cev"hq"vjg"43uv"Egprwt{"kp"y jkej"Eqpi tguu"fkgtvgf"vjg"Eq o o kuukqp"vq"eqpkfgt." kp"eqpuwncvkqp"ykvj"vjg"Ugetgvt{"qh"vjg"W0U0"Frctv o gpv"qh"Vtcurqtvcvkqp"*W0U0"FQV+."urgetw o "pggf"u hqt"vjg"qrgtcvkqp"qh"vjg"KVU."kpenwfkpi"urgetw o "vjcv"eqwnf"uwr rqtv"qrgtcvkqpu"wukpi"vjg" FUTE" xgjkeng/vq/ y c{ukfg"yktnguu"uvcpcfctf0:""Cv"vjg"vk o g"vjg"Eq o o kuukqp"tgugtxgf"vjg"70;" I J |"dcpf"hq"KVU."kv"y cu" gzrgevgf"vjcv"vjg"dcpf"y qwnf"uwr rqtv"y kfgurtgcf" fgrnq{ o gpv"qh"u{uvgo u"vjcv"y qwnf"k o r tqxg"ghhkegpe{ " cpf"rtq o qvg"uchgv{"ykvj"kp"vjg"pcvkqpou"vtcurqtvcvkqp"kphtcvtwevwtg0:""Kp"4225."vjg"Eq o o kuukqp"cfqrvgf" nkegpukpi"cpf"ugtxkeg"twngu"hq" FUTE"qrgtcvkqpu"vjcv"urgekhhgf" c"ukp ing"vgej pqnq i kecn"uvcpcfctf"dcugf"qp" vjg"gzrgevgvkqp"vjcv."fgurkv"vjg"Eq o o kuukqpou"i gpgtci"rtghgtgpeg"hq"ngcxkpi"vjg"ugngevkqp"qh" vgej pqnq i kgu"vq"nkegpuggu."c"ukp ing"uvcpcfctf"kp"vjku"dcpf"y cu" o quv"nkmg{"vq"rtq o qvg"kpvtqr gtdcknk v{ " dgvy ggp" xgjkengu"cpf"kphtcvtwevwtg."gpcdng"tdwuw"cwvq o qvkg"uchgv{"eq o o wpkecvkqpu."cpf"ceengtcvg"vjg" pvcvkpykfg" fgrnq{ o gpv"qh" FUTE/dcugf"cr rnkcevkqpu"y jkng"tgfwekpi" k o r ng o gpv"vkv"equu032

90A Ukpeg"vjcv"vk o g."vjg" FUTE/dcugf"ugtxkeg"jcu"gxqnxgf"unq yn{"cpf"jcu"pqv"dgpp"y kfgn{ " fgrnq{gf"ykvj"kp"vjg"eqpuw o gt"cwvq o qdkng" o ctmgwl"Ogcp y jkng."pw o gtqwu"vgej pqnq i kgu"vjcv"qrgtcvg" qwvukfg"vjg"70;" I J |"dcpf"jcxg"dgpp"qt"ctg"dgkpi"fgxgnqrgf"cpf" fgrnq{gf"vq"k o r tqxg"vtcurqtvcvkqp"uchgv{ " cpf"ghhkegpe{."uwej"cu"nqpi"tcpig"cpf"ujqtvtcpig"tcfct"u{uvgo u"kp"vjg"98/:3" I J |"dcpf"uchgv{"cpf" eqpxgpkppeg"hgcvwtgu"kpvg i tcvgf"kpvg"egmnr j qpg"cr ru"cpf"eqppgevgf"vq"qp/dqctf" fkurnc{u"vj tqw i j" wpnkegpugf"urgetw o "rtqvqequu."qrvecn"ec o gtcu."uqptc."cpf"NkFCT"nki jv"fgvgevkqp"cpf"tcpikpi+0"

:0A Tgegpvn{."E/X4Z/dcugf"vgej pqnq i {"jcu" ickpgf" o q o gpvw o "cu" c" o gcpu"qh"rtqxfkpi" vtcurqtvcvkqp"cpf" xgjkeng"uchgv{/tgnvcgf"eq o o wpkecvkqpu033"Cu"gpvkukqpgf."E/X4Z"y qwnf"dg"rctv"qh" c" eqppgevgf" xgjkeng"gequ{uvgo u"vjcv"rtqxfkgu"fkgtvg"eq o o wpkecvkqpu"dgvy ggp" xgjkengu."dgvy ggp" xgjkengu" cpf"kphtcvtwevwtg."dgvy ggp" xgjkengu"cpf"qvjgt"tqcf" wugtu."cpf"dgvy ggp" xgjkengu"cpf"egmwnct" eq o o wpkecvkqpu"rtqxfkgu" o qdkng"dtqcdcpf"pgv y qtmu034"Rtqrppgpw"qh"E/X4Z"cpvkekr cvg"vjcv"kv"y knn

9 Amendment of Parts 2 and 90 of the Commission's Rules to Allocate the 5.850-5.925 GHz Band to the Mobile Service for Dedicated Short Range Communications of Intelligent Transportation Services."GV" Fqemgv" Pq0" ; : / ; 7." Tgrqtvt"cpf"Qtfgt."36"HEE" Tef"3:443*3; ; ; +*DSRC Report and Order+0

"DSRC Report and Order."36"HEE" Tef"cv"3:444/45."rctcu0/4/5="Vtcurqtvcvkqp"Gswkv{"Cev"hq"vjg"43uv"Egprwt{." Rwd0"N0327/39:."E"7428+h+."334"Uvcv0"329*3; ; ; +*VGC+0"Vjg"VGC"fkf"pqv"tgsuktg"vjcv"vjg"Eq o o kuukqp"cnqcevg"vjg" 70;" I J |"dcp"hq"KVU."qpn{"vjcv"vjg"Eq o o kuukqp"eqpkfgt"fqkpi"uq0"

"DSRC Report and Order."36"HEE" Tef"cv"3:447."rctcu0"; *cnqcevkpi"vjg"70;" I J |"dcpf"hq" FUTE"dcugf"qp" c" hkpfkpi" vjcv"o FUTE"cr rnkcevkqpu"ctg" c"mg{"gng o gpv"kp" o ggvkpi"vjg"pcvkqpou"vtcurqtvcvkqp"pggf"u"kpvg"vjg"pgzv"egprwt{"cpf"kp" k o r tqxkpi"vjg"uchgv{"qh"qwt"pcvkqpou"jki j y c{u06+0"

32"Amendment of the Commission's Rules Regarding Dedicated Short Range Communications Services in the 5.850-5.925 GHz Band (5.9 Band); Amendment of Parts 2 and 90 of the Commission's Rules to Allocate the 5.850-5.925 GHz Band to the Mobile Service for Dedicated Short Range Communications of Intelligent Transportation Services."GV" Fqemgv" Pq0" ; : / ; 7."Tgrqtvt"cpf"Qtfgt."3;"HEE" Tef"467:."4688/8:."rctcu0/35/38"4225+*DSRC Service Rules Order+0 See also"69"EHT"EE"; 2059;"cpf"; 70537;"*kpeqrqtvcvkpi" d{"tghgtgpeg"vjg" C" o gtkecp"Uqekgv{"hq"Vgukvpi"cpf" Ocvgtkcu"*CUVO+"G4435/25" FUTE"uvcpcfctf"*vjg"CUVO/ FUTE"Uvcpcfctf+0"Kp"4232."KGGG"cfqrvgf" c"pgy" uvcpcfctf:."24033r."hq"yktnguu"ceeguu"kp" xgjkewnc"gpvktq o gpvu0"See" jwru<lucvpcfctfu0kgeq0ti lucvpcfctf1:24a33r/ 42320jv o n0"

33"Qp" Pqvg o dgt"43."423:."vjg"7I" Cwvq o qvkg"Cuqekcvkqp"*7I CC+."cp"cuqekcvkqp"tgrtvgpvkpi"cwvq o qvkg." vgej pqnq i {"cpf"vnggeq o o wpkecvkqpu"eq o rcpkgu."tgswgvgf"vjcv"vjg"Eq o o kuukqp"yckxg"vjg" FUTE/urgekhe"twngu"vq" cnqy" fgrnq{ o gpv"qh"E/X4Z"kp"vjg"42/ o g i c j g t v | " e j c p p g n h q e c v g f " c v " v j g " w r r g t " g f i g " q h " v j g " 7 0 ; " I J | " d c p f " * k 0 g 0 . " v j g " 7 0 ; 2 7 / 7 0 ; 4 7 " I J | " r q t v k p " q h " v j g " d c p f + 0 " 7 I C C " R g v k v k p " h q t " Y c k x g t " * h k n g f " P q x 0 " 4 3 . 4 2 3 : + " s e e O f f i c e o f E n g i n e e r i n g a n d T e c h n o l o g y a n d W i r e l e s s T e l e c o m m u n i c a t i o n s B u r e a u S e e k C o m m e n t o n 5 G A A P e t i t i o n f o r W a i v e r t o A l l o w D e p l o y m e n t o f C e l l u l a r V e h i c l e - t o - E v e r y t h i n g (C - V 2 X) T e c h n o l o g y i n t h e 5 . 9 G H z B a n d . " I P " F q e m g v " P q 0 " 3 : / 5 7 9 . " R w d n k e " P q v k e g . " F C " 3 : / 3 4 5 3 * F g e l 0 8 . " 4 2 3 : + 0 "

34"See Use of the 5.850-5.925 GHz Band."GV" Fqemgv" Pq0"3;/35:."Pqvkeg"qh"Rtqrqvgf"Twng o cmkpi."56"HEE" Tef" 34825."34827/828."rctcu0"7*423; +*5.9 GHz NPRM+0" Ceeqt fki"vq"7I" Cwvq o qvkg"Cuqekcvkqp"*7I CC+."E/X4Z"jcu" vyq" o qfgu"qh"qrgtcvkqp"kp"fkgtvg" o qfg."vtcurqtvcvkqp"cpf" xgjkeng"uchgv{/tgnvcgf"eq o o wpkecvkqpu"ctg"vtcpu o kvvgf" *eqpvkpwgf i 0+ "

ugtXg"cu"vjg"hwppfcvkqp"hqt"XgjKengu"vq"eq o o wpkcevq"ykvj"c"y kfg"tcpig"qh"qvjgt"Xgjkengu"cpf"kphtcuvtwevwtg"
ctqwpf"vjg o ."rtqxfkpi"pqp/nkpg/qh/uki jv"cyctgpguu."rtqxfkpi"vjgk"qrgtcvqtu"ykvj"pqvkeg"qh"ejcpikpi"
ftkxpi"eqpfkvpku"ykvj"c"jki j"ngxgn"qh"rtgfkevcdknkv{"hqt"gpjcpvgf"tqcf"uchgv{"cpf"gpici kpi"kp"cwvq o cvgf"
ftkxpi³⁵"Pqvcdn{"E/X4Z"wugu"c"fkhhgtgpv"tcfkq"vgejppnqi {"uvpcfctf"vjcv"ku"kpeq o rcvkdng"ykvj" FUTE/
dcugf"qrgtcvkkpu³⁶

;0A 5.9 GHz NPRM."Kp" Fgeg o dgt"423;"y g"kpvkcvqf"vjku"twng o cmkpi"rtqeggfkipi"vq"vcmg"c"
ohtguj"nqmqd"cv"vjg"qrvk o c n" wug"qh"vjg"xcnwdng"97" o gicjgtv|"vjcv" o cmgu"wr"vjg"70;" I J |"dcpf."ikxgp"*3+
vjg"gzrqpqpkcnn{"itqykpi"fg o c p fu"ht"wpnkegpugf"cr rnkcevkkpu"ceeguu"vq" o kf/dcpf"urgetv o ="*4+vjg"
tgnvcxgn{"unqy"fg r nq {" o gpv"qh" FUTE"gs wkr o gpv="*5+vjg"uki pkhkecpv"gxqnwvkqp"qh"vtcpurqtvcvkqp"cpf"
Xgjkewnct"uchgv{/tgnvcv"vgejppnqiku"qvvkfg"vjg"70;" I J |"dcpf="cpf"*6+vjg"tkupi"kpvtgvtu"kp"E/X4Z"cu"cp"
cnvtpcvkxg"tcfkq"vgejppnqi {"vjcv"eqwnf"rtqxfkfg"vtcpurqtvcvkqp"cpf"uchgv{/tgnvcv"eq o o wpkcevkkpu"kp"vjg"
70;" I J |"dcpf"Vq"vjcv"gpf."y g"rtqrqvgf"vq"etgcvq"uwd/dcpfu"ykvj"vjg"70;" I J |"dcpf"vq"cnqy"
wpnkegpugf"qrgtcvkkpu"kp"vjg"nqygt"67" o gicjgtv|"qh"vjg"dcpf"*70:72/70:;7" I J |+"cpf"tgugtxg"vjg"wr rgt"52"
o gicjgtv|"qh"vjg"dcpf"*70:;7/70;47" I J |+"ht"KVU³⁷"Y g"tgcuppgf"vjcv"vjku"67152" o gicjgtv|"urnkv"ht"
wpnkegpugf"fgxkegu"cpf"KVU"cr rnkcevkkpu"yqwnf"qrvk o k|g"vjg" wug"qh"urgetv o "tguqwtgu"kp"vjg"70;" I J |"
dcpf"0" Wpfgt"vjku"rtqrqucn."vjg"wpnkegpugf"rtqvkp"qh"vjg"dcpf"eqwnf"dg"eq o d k p g f"ykvj"urgetv o "kp"
cflcepv"dcpfu"vjcv"uwr rqt"jgcx {"wpnkegpugf"fgxkeg" wug"vq"rtqxfkfg"ewvki/gf i g"jki j/vjqtwi j r wv"
dtqfcdcpf"cr rnkcevkkpu"qp"ejcppgnu"wr"vq"382" o gicjgtv|"y kfg."y jkng"vjg"KVU"rtqvkp"qh"vjg"dcpf"yqwnf"
tg o c k p "fgfkecvqf"vq" o ggv"ewttgpv"cpf"hwvwtg"KVU"pggfu"ykvj"vjg"vtcpurqtvcvkqp"cpf"Xgjkewnct"uchgv {"
tgnvcv"gequ {uvg o 0"

320A Vjg"rtqrqucn"urgekkecnn{"ecngf"ht"vjg"wr rgt o quv"42" o gicjgtv|"*70:27/70;47" I J |+"vq"dg"
fgfkecvqf"vq"E/X4Z"cpf"cumgf"y jvgvgt"vq"fgukipcvq"vjg"tg o c k p k p i "32" o gicjgtv|"*70:;7/70;27" I J |+"ht"
E/X4Z"qt"tgvcv"vjcv"32" o gicjgtv|"ht" FUTE³⁸

fktgevn{"dgv y ggp"Xgjkengu"Xgjkeng/vq/Xgjkeng*X4X+."dgv y ggp"Xgjkengu"cpf"tqcfukfg"kphtcuvtwevwtg"*Xgjkeng/vq/
kphtcuvtwevwtg"*X4k+."cpf"dgv y ggp"Xgjkengu"cpf"qvjgt"tqcf" wugtu"uwej"cu"rgfguvtkcpu"cpf"dke{enkuvu"*Xgjkeng/vq/
rgfguvtkcp"*X4R+0"Kp"pgv y qtm" o qfg"*Xgjkeng/vq/pgv y qtm"*X4P+."eq o o wpkcevkkpu"ctg"vtcpu o kvvgf"vjqtwi j "egnnwnt"
rtqxfkgtu" o qdkng"dtqfcdcpf"pgv y qtmu"tcv jgt"vjcp"kp"vjg"70;" I J |"dcpf"0"See"7 ICC"Eq o o gpvu"cv"K."Gzgewkxg"
Uw o o c t {"cpf"5="7 ICC" Tgrn {"cv"47="Swneq o o "Eq o o gpvu"cv"80"

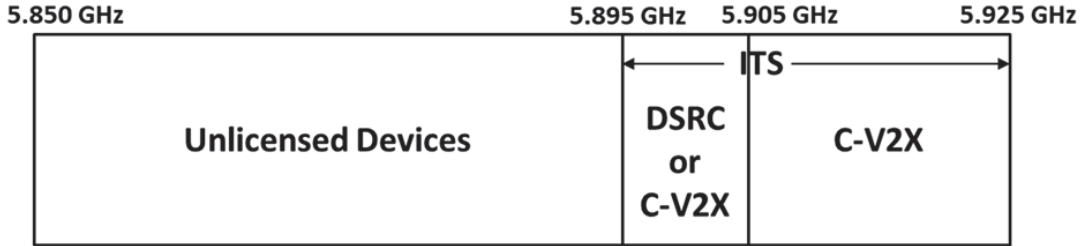
³⁵See Swneq o o "Eqppgevkpi"Xgjkengu"vq"gxgt{vjkipi"ykvj"E/X4Z"cv"40"
jwruklly y y0swneq o o0eq o l kpxgpkvqpl7i legmnwnt/x4z="Ceengtcvkpi"E/X4Z"eq o o gteknk |cvkqp"cv"37."
jwruklly y y0swneq o o0eq o l o g f k c l f q e w o g p v u l h k n g u l c e e g n t c v k p i / e / x 4 z / e q o o g t e k n k | c v k q p 0 r f h ="7 I " P T " d c u g f " E /
X 4 Z . " j w r u k l l y y y 0 s w n e q o o 0 e q o l o g f k c l f q e w o g p v u l h k n g u l 7 i / p t / d c u g f / e / x 4 z / r t g u g p v c v k q p 0 r f h ="ncuv"xkukvgf"Qev"49."
4242="7 I " C o g t k e c u " O c t e j " 4 2 3 : " Y j k v g " R c r g t . " E g n n w n t " X 4 Z " E q o o w p k e c v k k p u " V q c t f u " 7 I . " c v " 5 . "
jwruklly y y07ic o g t k e c u l t i l y j k v g / r c r g t u l 0 " U q o g " q h " v j g u g " h w p e v k p u " y q w n f " d g " u w r r q t v g f " d { " v j g " g x q n w v k p " v q " 7 I "
Pgy" Tcfkq/dcugf"E/X4Z"0"Id."

³⁶E/X4Z"uvpcfctfu"fgxgnqr o gpv"dgi cp"kp"4237"y jgp"5 IRR"urgekhhgf"E/X4Z"hgcvwtgu"dcugf"qp"vjg"6 I"NVG/Rtq"
u{uvg o "kp"5 IRR" Tngcug"360" Y jkng"E/X4Z"ku"dcugf"qp"vjg"5 IRR"NVG"hc o kn {"qh"uvpcfctfu."FUTE"ku"dcugf"qp"vjg"
KGGG":24033"hc o kn {"qh"uvpcfctfu"

³⁷See 5.9 GHz NPRM."56"HEE"Tef"cv"3482:."rctc"330"

³⁸See 5.9 GHz NPRM."56"HEE"Tef"cv"34835/38."retcu"46/530"

Rtqrqugf"Dcpf"ncp



330⁴ Cempqyngf i k p i "v j c v"v j g" r t q r q u c n u" k p"v j g" 5.9 GHz NPRM"eqwnf"tguwnv"kp"v j g" p g g f" h q t" FUTE"kpew o d g p v u"v q"v t c p u k v k q p"v j g k t"q r g t c v k q p u"q w v"q h"u q o g"q t" c m n"q h"v j g"70;" I J|"d c p f"."y g"u q w i j v" e q o o g p v"q p"r q u u k d n g"v t c p u k v k q p"r c v j u"c p f"v j g"Eq o o k u u k q p p u" c w v j q t k v{"w p f g t"u g e v k q p"538"q h"v j g" Eq o o w p k e c v k q p u"C e v"v q"o q f k h{"q t" f k u e q p v k p w g" F U T E"q r g t c v k q p u"³⁹"k p"v j g" 5.9 GHz NPRM"y g" c n u q" r t q r q u g f"v g e j p k e c n"t w n g u"v j c v"y q w n f"i q x g t p"v j g"v t c p u r q t v c v k q p"c p f"w p n k e g p u g f" w u g u"k p"v j g"70;" I J|"d c p f"³:" Y g"r t q r q u g f"v j c v" f g x k e g u"k p"v j g" W/PKK/6"d c p f"*70: 72/70: ; 7" I J|+."q t" f g x k e g u"v j c v"q r g t c v g" c e t q u u" c"u k p i n g" e j c p p g n"v j c v"u r c p u"v j g" W/PKK/5"*70947/70: 72" I J|+"c p f" W/PKK/6"d c p f u."r t q v g e v"K V U" h t q o"j c t o h w n" k p v g t h g t g p e g"d{"o g g v k p i"e g t v c k p"q w v/q h/d c p f" g o k u u k q p u"*Q Q D G+"n k o k v u³:" Y g" c n u q" r t q r q u g f"v j c v" W/PKK/6" f g x k e g u" d g" r g t o k w v g f"v q"q r g t c v g" c v"v j g" u c o g" r q y g t"n g x g n u" c u" W/PKK/5" f g x k e g u⁴²"

340⁴ k p" c f f k v k q p"v q"v j g" r t k o c t{"p q p/H g f g t c n"O q d k n g"U g t x k e g" c m n q e c v k q p" h q t" F U T E" k p"v j g" K V U" t c f k q"u g t x k e g."v j g"70;" I J|"d c p f" k u" c n u q" c m n q e c v g f."k p"v j g" W0U0"V c d n g"q h" H t g s w g p e{"C m n q e c v k q p u."h q t"v j g" H g f g t c n" T c f k q n q e c v k q p"U g t x k e g" c p f"v j g" p q p/H g f g t c n" H k z g f"U c v g n k v g"U g t x k e g"*G c t v j/v q/u r c e g+"q p" c"r t k o c t{" d c u k u" c p f"v j g" C o c v g w t"U g t x k e g" q p" c"u g e q p f c t{"d c u k u" h q t" p q p/h g f g t c n" w u g u⁴³" V j g"70: 72/70: 97" I J|"u g i o g p v" q h"v j g"70;" I J|"d c p f" k u" f g u k i p c v g f" k p v g t p c v k q p c m n{"h q t" k p f w u v t c n."u e k g p v k h k e."c p f" o g f k e c n"*K U O+" c r r n k e c v k q p u⁴⁴" k p"v j g" 5.9 GHz NPRM."y g" r t q r q u g f" t w n g u"v j c v"y q w n f" g p u w t g" k p v g t h g t g p e g" r t q v g e v k q p u" h q t" h g f g t c n"q r g t c v k q p u" k p"v j g" H g f g t c n" T c f k q n q e c v k q p"U g t x k e g⁴⁵" Y g" r t q r q u g f"v j c v" p q" c f f k v k q p c n" r t q x k u k q p u" y g t g" p g g f g f"v q" r t q v g e v"v j g" p q p/H g f g t c n" H k z g f"U c v g n k v g"U g t x k e g"q r g t c v k q p u" k p"v j g"70;" I J|"d c p f" h t q o" E/ X4Z" f g x k e g u."q t"v q" r t q v g e v" E/X4Z" f g x k e g u" h t q o" C o c v g w t"U g t x k e g u" q t" K U O"q r g t c v k q p u⁴⁶" Y g"u q w i j v" e q o o g p v"q p"v j g" g z v g p v"v q"y j k e j"v j g"v t c p u r q t v c v k q p" c p f" x g j k e n g/u c h g v{"h w p e v k q p u"q t k i k p c m n{"e q p v g o r n c v g f" w p f g t"v j g" F U T E"o q f g n" c t g" d g k p i."q t" c t g" c p v k e k r c v g f"v q" d g."r t q x k f g f" k p"q v j g t" d c p f u"q t"v j t q w i j"q v j g t"

³⁹ See 5.9 GHz NPRM."56"HEE"Tel"cv"34838/3:."rctcu0"54/580"See"69"W0U0E"E"538"*o q f k h k e c v k q p" d {"Eq o o k u u k q p"q h" u v c v k q p"n k e g p u g u" Q p" F g e l"3:."423:."v j g"Eq o o k u u k q p"v g o r q t c t k n{"h t q l"v j g" c e e g r v c p e g" c p f" r t q e g u u k p i"q h"p g y" c p f" g z r c p f g f" w u g" c r r n k e c v k q p u" t g n c v g f"v q" r c t v"; 2"u g t x k e g u"q r g t c v k p i" k p"e g t v c k p" r q t v k q p u"*u r g e k h k e c m n{"70: 72/70: ; 7" I J|" c p f"70: 27/70: 47" I J|+q h"v j g"70: 72/70: 47" I J|"d c p f"*70;" I J|"d c p f"+"c p f"q p"v j g" r t q e g u u k p i"q h" c r r n k e c v k q p u"v q" t g p y" r c t v"; 2"n k e g p u g u" k p"v j g"70;" I J|"d c p f"+0"

³ See 5.9 GHz NPRM."56"HEE"Tel"cv"3483:/42."rctcu0"59/67."34844/46."rctcu0"75/7:0"

³ See 5.9 GHz NPRM."56"HEE"Tel"cv"34844/46."rctcu0"75/780"

⁴² See 5.9 GHz NPRM."56"HEE"Tel"cv"34844/45."rctcu0"75."p0; 50"

⁴³ See 69"EHT"E"40328."P I 3820"

⁴⁴ See 69"EHT"E"40328"Hqqvqvq"703720"

⁴⁵ See 5.9 GHz NPRM."56"HEE"Tel"cv"34842/43."46."rctcu0"69/6:."790"

⁴⁶ See"70;" I J|"P R T O."56"HEE"Tel"cv"34843/44."rctcu0"6:/730" W p f g t"v j g"Eq o o k u u k q p u" t w n g u."u v c v k q p u"q h" c" u g e q p f c t{"u g t x k e g" o w u w"p q" e c w u g"j c t o h w n" k p v g t h g t g p e g"v q."c p f" e c p p q" e a c k o" r t q v g e v k q p" h t q o"j c t o h w n" k p v g t h g t g p e g" h t q o."u v c v k q p u"q h"r t k o c t{"u g t x k e g u"v q"y j k e j" h t g s w g p e k u" c t g" c n t g c f{"c u u k i p g f"q t" o c{"d g" c u u k i p g f" c v" c"n c v g t" f c v g l"69" E H T" E"40326* f+*5+*k+."*kk+0"

ogcpu047""Hkpcnm{."yg"nckf"vjg"itqwpfyqtm"htq"gxcnwcvkpi"cpf"ecnewncvki"vjg"equvu"cpf"dgpgkhvu"qh"fguki"pcvki"cu"uki"pkhkecp"rqtvkqp"qh"vjku"dcpf"htq"wpnkegpugf"qrgtcvkqpu048"

III. REPORT AND ORDER

350A Kp"vjku"Hktuv"Trgrqtv"cpf"Qtfgt."yg"eqpenwfg"vjcv"vjg"o quv"ghhkegvp"wug"qh"vjg"97"ogicjgtv|"qh"okf/dcpf"urgetw o"kp"vjg"70;" I J|"dcpf" yknn"dg"cejkxgf"d{"cmmqykp i"wpnkegpugf"wug"kp"vjg"nqygt"67"ogicjgtv|"qh"vjg"dcpf"*70:72/70:;7" I J|+"cpf"fguki"pcvki"vjg"wr rgt"52"ogicjgtv|"qh"vjg"dcpf"*70:;7/70;47" I J|"hqt"KVU"ugtxkeg"cr rncecvkqpu0""Yg"cnuq"vcmg"uvgru"kp"vjku"Hktuv"Trgrqtv"cpf"Qtfgt"vq"cwvjqtk|g"wpnkegpugf"ugtxkeg"kp"vjg"70:72/70:;7" I J|"rqtvkqp"qh"vjg"70;" I J|"dcpf"cu"uqqp"cu"rquukdng"uq"vjcv"vjg"C ogtkecp"rgqrng"ecp"dgikp"tgegxkp i"vjg"dgpgkhvu"qh"wpnkegpugf"qrgtcvkqpu" ykvjqwv"cp{"wppgeguuct{"fgnc{"0""Urgekhkecm{"cu"qh"vjg"ghhgevkxg"fcvg"qh"vjku"Hktuv"Trgrqtv"cpf"Qtfgt."yg"yknn"cnmqy"ko ogfkcvg"ceeguu"htq"wpnkegpugf"kp fqqt"qrgtcvkqpu"cetquu"vjg"gpvktg"70:72/70:;7" I J|"rqtvkqp"qh"vjg"70;" I J|"dcpf."wpfgt"urgekkgf"rqygt"cpf"qvjgt"vgejpkecn"nk o kvcvqpu"fguki"pgf"vq"rtqvev"KVU"ugtxkeg"cpf"hgfgtcn"tcfct"qrgtcvkqpu"htq o"jct o hwn"kpvgthgtpego""Yg"cnuq" yknn"eqpukfgt"tgs wguvu"htq"hwmm"rqygt"qwwfqqt"qrgtcvkqpu"vj tqw i j"qwt"gzukvki"tgi wncvqt {"rtqeguu"htq"kp fxxkfwcnk|gf"cpf"vgo rqtct{"ceeguu"vq"urgetw o"*g0i0."UVC"cpfliq" y cxxgt+." y jkej" y knn"dg"eqqtfkpcvfg" y kvj" PVKC"vq"gpuwtg"vjcv"hgfgtcn"kpew o dgpvu"ctg"rtqvevfg"htq o"jct o hwn"kpvgthgtpego""Yg"hwvtjgt"eqpenwfg"vjcv."vq"rtq o qvg"vjg"o quv"ghhkegvp"cpf"ghhgevkxg" wug"qh"vjg"urgetw o"vjcv" y knn"eqpvkpwg"vq"dg"fguki"pcvfg"htq"KVU."qpn{"c"ukping"vgejpqni {"ku"cr rtrtkcvg."cpf"yg" y knn"tgs wktg" wug"qh"E/X4Z"vgejpqni {"0""Rgpfpki"tguqnwvkqp"qh"vjg"vtcpvkqp"qh"KVU"qrgtcvkqpu"vq"E/X4Z."KVU"nkegpuggu" y knn"dg"cdng"vq"eqpvkpwg"vjgkt" FUTE/dcugf"qrgtcvkqpu"qt."cnvgtpcvkgxg{."vq"fg r nq {"E/X4Z/dcugf"qrgtcvkqpu"d {"qdvckpki" c" y cxxgt"uwdlgev"vq"urgekkgf"eqpfkvkqpu0"

A. Dividing the 5.9 GHz Band for Unlicensed Operations and for ITS

360A Kp"vjg"5.9 GHz NPRM."yg"rtqrqgf"vyq"uwd/dcpfu" y kvj"kp"vjg"97"ogicjgtv|"kp"vjg"70;" I J|"dcpf"o"cnmqykp i"67"ogicjgtv|"htq"wpnkegpugf"qrgtcvkqpu"cpf"52"ogicjgtv|"htq"KVU"o"dgngxkpi"vjcv"vjku" y qwnf"qrvk o ki g"vjg" wug"qh"vjg"70;" I J|"urgetw o"tguqwtegu"vq"hwmm{"cpf"ghhgevkxgn {"ugtxg"vjg"C ogtkecp"rgqrng049""Ukpeg"vjg"Eq o okuukqp"htuv"fguki"pcvfg"vjg"70;" I J|"dcpf"htq"KVU"kp"3; ; ;."vtcpurqvcvkqp"cpf" xgjkewnct"uchgv {"tgnvcgf"vgejpqni kgu"jcxg"gxqnxgf"uki"pkhkecpvn {"cu"jcxg"fg o cpfu"htq"ceeguu"vq"okf/dcpf"urgetw o."rctkewncn {"htq"wpnkegpugf"qrgtcvkqpu0""Dcugf"qp"qwt"gxcnwcvkqp"qh"vjg"ug"ejcpigf"ektew o uvcpegu."yg"jcxg"fgvgt o kpgf"vjcv"vjg"qrvk o cn" wug"qh"vjku"dcpf"jcu"ejcpigf"cu" y gmn."cpf"vjcv"vjg"rwdnke"kpvgtguv" y qwnf"dg"dgvggt"ugtxgf"d {"tgeqphki"wtkpi"vjg"70;" I J|"dcpf"kp"ceeqtfepeg" y kvj"qwt"rtqrqucn"vq"fguki"pcvg"67"ogicjgtv|"*cv"70:72/70:;7" I J|+"cu"cn"nqygt"uwd/dcpf"htq"pgy"wpnkegpugf" wug."cpf"52"ogicjgtv|"*cv"70:;7/70;47" I J|+"cu"cp"wr rgt"uwd/dcpf"htq"KVU"cr rncecvkqpu0""Trgrw rquki" v jku"xcnwdng"97/ogicjgtv|"rqtvkqp"qh"urgetw o"kp"vjku" o cppgt" y knn"gpuwtg"vjg"swkemguy"rcvj"vq y ctfu"kvu" o quv"ghhkegvp"cpf"ghhgevkxg" wug0"

1. Unlicensed Operations in the Lower 45 Megahertz of the 5.9 GHz Band

370A Fg o cpf"htq"urgetw o"vq"uwr rqtv"wpnkegpugf" wug"jcu"kpvgpukhkf"kp"tgegpv {"gctu04:""Yk/Hk"ceeguu"rqkpu"*cpf"vjgkt"cuuqekcvfg"eqppgevgf"fgxkegu+"rtqxkf"jki j"fcvc"tcvg"nqecn"ctgc"pgv y qtm"eqppgevkqpu"htq"u o ctv"r j qpgu."vcdngvu."eq o rrwgtu."vgnxkukqp."cpf"qvjgt"fgxkegu"kpukfg"cpf"qwwukfg"vjg"jq o g"vq"kpvgteqppgev" y kvj"cpf"ceeguu"vjg"Kpvgtpgv" Yk/Hk"jcu"dgeq o g"c"uvcrng"kp"C ogtkecp"nhkg."cpf"o cp {"jqwugjqnfu"tgn {"qp" Yk/Hk"vq"eqppgev"vq"vjg"Kpvgtpgv0""Kv"cnuq"gpdcngu"fcvc"qhhnqcfkpi"htq o"eq o o gtekn"yktnguu"pgv y qtmu"vq"tgnkgxg"eqpi guvkqp" y jgp"eqpuw o gt"fg o cpf"ku"jki j04:""Kpfwvut {"uwvfkgu"rtqlgev"vjcv"

47"See 5.9 GHz NPRM."56"HEE"Tef"cv"34846/47."rctcu0"7;/840"
48"See 5.9 GHz NPRM."56"HEE"Tef"cv"34847/49."rctcu0"85/890"
49"5.9 GHz NPRM."56"HEE"Tef"cv"3482:/38."rctcu0"33/530"
4:"5.9 GHz NPRM."56"HEE"Tef"cv"3482;."rctcu0"360"
4:"5.9 GHz NPRM."56"HEE"Tef"cv"3482;."rctcu0"35/360""Qhhnqcfkpi"tgfwegu"vjg"co qwvq"qh"fcvc"hnqykp i"vj tqw i j" c"ecttkgtou"pgv y qtm." y jkej"tgfwegu"vjg"rqvgpvkcn"htq"pgv y qtm"eqpi guvkqp"d {"htgkpi"dcpf y kfvj"*gurgekcn {"kp"kp fqqt"gp xktq o gpvu+"tguwvki"kp"kpctgcugf"rgthqt o cpeg"htq"cm" wugtu0""Cu"ncti g"co qwvpu"qh"fcvc"vtcpu o kuukqp"ctg"gzrgevgf"*eqpvkpwgf i 0+"

vjg"W0U0"ykm"pggf"dgyvggp"9: : "ogicjgtv|"cpf"308"ikicjgtv|"qh"pgy"okf/dcpf"urgetw o"d{"4247"vq" ceeq o oqfcvg"vjg"itqykpi"fg o cpf"htq"Yk/Hk0⁵²" Y g"eqpvkpwg"vq"uggm"yc{"u"vq"o ggv"vjg"itqykpi"fg o cpf" htq"urgetw o"vq"uwr rqtv"wpnkegpugf" wug⁵³" cpf" gctnkt"vjku" {gct"cwjqtkgf"cf fkvkqpcn"W/PKK"dcpfu"kp"vjg"8" I J |"dcpf."cu"cu"uvtv"vqyctf" o ggvkpi"vjcv"dwt igqpkpi"fg o cpf⁵⁴"

380^A Oqdkg"qrgtcvqtu"tqwkpgn{"wug"wpnkegpugf"urgetw o"htq"pgy qtm"qhnhqcfkpi"cpf" o qdkg" ecttkgt"jcxg"ykgfn{"k o rng o gpvf"Yk/Hk"ecmkpi⁵⁵"Vjg"qpiqkpi"rcpfg o ke"kp"vjg"W0U"jcu"hwvtjgt" kpetgcugf"tgnkcpq"Yk/Hk"cu"o qtg"jqwugjqnfu"ctg"vwtkpi"vq"fkuvcpq"ngctkpi."vngy qtmkpi."cpf"uqekcn" pgy qtmkpi⁰"Ukpeg"vjg"rcpfg o ke"dgicp."vjg"pcvkqpou"tgnkcpq"kp/jq o g"eqppgevkxkv{"jcu"kpetgcugf" ftc o cvkecm{"cpf"vjku"fg r gpf gpeg"cpf"tgnkcpq"wpnkegpugf"urgetw o"fwtkpi"vjgug"wpegtvckp"vk o gu"ku" gzrgvgf"vq"eqpvkpwg⁵⁶"Hqt"gzc o rng."kp"Octe"j"CV (V"tgrqtvf"98' "qxgt/vjg/cxgtcig"kpetgcug"kp"Yk/Hk" ecmkpi" o kpvv⁵⁷"Uk o knctn{"Eq o ecuvou"Zhkpkv{"Oqdkg"jcu"uggp"6; ' "kpetgcug"kp"kvu"Yk/Hk"qhnhqcfkpi" htq o"kvu" o qdkg"fgxkegu⁵⁸"Xgtk|qp"jcu"tgrqtvf"yggm/qxgt/yggm"kpetgcugu"fwtkpi"rgcm"jqt" wucig"ykvj" c" 97' "kpetgcug"htq"ic o kpi."56' "kpetgcug"htq"xtvwn"rtkxcvg"pgy qtmu"XRPu."42' "kpetgcug"kp"ygd"vtchhke." cpi"34' "kpetgcug"kp"xfqg"uvtgc o kpi⁵⁹"Vjg"cxckcdknkv{"qh"urgetw o"htq"wpnkegpugf" wug"ku" o qtg"etkvecn" vjcp"gxgt"dghqtg⁰"

390^A Vjg"ncvguv"Yk/Hk"uvcpfctfu."KGGG":24033cz"* o ctmgvf"cu"o Yk/Hk"86+"cpf":24033ce"ecp" fgkxgt"ikicdkv"urggfu."uwr gkqt"rgthq o cpeg"kp"etqy fgf"gpktqp o gpwu."cpf"dgwgt"fgxkeg"dcvgt{"nkhg"vjcp" gctnkt"xtgukpp"qh"Yk/Hk⁰"kp"rctkewct."pgy"wpnkegpugf"fgxkegu"ctg"gzrgvgf"vq"rtqkukqp" o czk o w o " urggfu"vjcv"ctg"v y q/cpf/c/jcnh/vk o gu"hcuvgt"vjcp"rtgfgeguqt"vejpqni{"."cpf"kpqtrqtcvg"hgcvwtgu"uwej"cu" o wnvk/wugt" o wnvkng"kprrw"cpf" o wnvkng"qwrwv"OW/OkOQ+"cpf"qtvjqipcn"htgswgpe{"fkxkukqp" o wnvkng" ceegu"QHFOC+"vq"qrwk o k|g"fevc"vtcpu o kuukpp⁵:"Vjg"ncvguv"uvcpfctfu"rtqkxfg"hnzkdknkv{ o rgt o kvkpi" qrgtcvqp"wukpi" c"xctkv{"qh"dcpfykvju"kp"vjg"7" I J |"cpf"8" I J |"dcpfu o dwv"tgswtg"ykgf/dcpfykvj" 382/o gicjgtv|"ejcppnu"vq"fgkxgt"vjg" o quv"ecrckv{"cpf"cfxcpegf"hgcvwtgu⁵:"

htq o"pgy"eqppgevgf"eqpuw o gt"cpf"eq o o gtekn"fgxkegu"qrgtcvki"qp"7 I"pgy qtmu."vjg"fg o cpf"htq"qhnhqcfkpi"ku" gzrgvgf"vq"tkug"uki"pkhkecpv{⁰"

⁵²"5.9 GHz NPRM."56"HEE"TEf"cv"3482;,"rctc⁰360"*See Uvvgxg"Ogvjng{" ("Ykknk o"Ygdd."Swqkqpv"Cuuqeul"Nvf⁰."Wi-Fi Spectrum Needs Study"cv"48."4:"Hgd⁰4239+."Tqnh"fg"Xgi"v"gv"cnl."Swcneq o o"Vgeju⁰."Kpe⁰."A Quantification of 5 GHz Unlicensed Band Spectrum Needs"cv"7"*4239+⁰"*

⁵³"5.9 GHz NPRM."56"HEE"TEf"cv"3482;,"rctc⁰360"

⁵⁴"Unlicensed Use of the 6 GHz Band."et al⁰."GV"fqemvg"pq⁰3:/4;7"cpf" I P"fqemvg"pq⁰39/3:5."Tgrqtv"cpf"Qtfgt" cpi"hwvtjgt"pqkqg"qh"Rtrqqug"Twng o cmkpi."57"HEE"TEf"5:74*4242+*6 GHz Report and Order+⁰"

⁵⁵"V/Oqdkg"Eq o o gpvu"cv"6⁰"

⁵⁶"Eq o ecuv"Trn{"cv"5⁰"

⁵⁷"See Oqpkc"Cmngxgp."AT&T: Wi-Fi Calling Up 76%."Hkgtg Yktgnuu"*Oct⁰52."4242+." jwru<ll y y o hkgteg yktgnuu<eq o l yktgnuu<cv/v/yk/hk/ecmkpi/wr/98⁰"

⁵⁸"Uee Eq o ecuv."EQXKf/3;"Pgy qtm"Wr fcvg"*ncuv"wr fcvgf"Cr t⁰37."4242+."jwru<ll eqtrqtcvq<eq o ecuv<eq o leqxf/ 3;lpgy qtm⁰"

⁵⁹"Mkmk"Kpictuw y cp."Jqy"Eqtpqpxkutwu"Chhgevu"Kpvtgpgv"Wucig"cpf"Yjcv{"qw"ecp"fq"vq"Ocmg" {qwt"Yk/Hk"Hcuvgt" *Oct⁰3:."4242+."jwru<ll y y v o pdepe y f qtm<eq o lpg y ulnqecn j q y /eqtpcxktwu/chhgevu/kpvtgpgv/wucig/cpf/yjcv/{qw/ ecp/fq/vq/o cmg/{qwt/yk/hk/hcuvgt145543391⁰"

⁵"See, e.g.."Lceq"Mcuvtpcmgu."Wi-Fi 6: is it really that much faster?"Hgd⁰43."423;+." jwru<ll y y o v jxgt ig<eq o 1423;1414313;4542481 yk/hk/8/urggf/gzrnckpgf/tqwwgt/ykhk/jqy/fqgu/yqtm⁰"

⁵"See."KGGG"Uvcpfctfu"Cuuqekvqp."IEEE P802.11ax = IEEE Draft Standard for Information Technology – Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks – Specific Requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment Enhancements for High Efficiency WLAN. jwru<ll uvcpfctfu<kgg<qt i l r tqlgevl:24a33cz<0>j v o i"*ncuv" xkukvgf" Qev⁰49."4242+⁰"

3:04 Cu"y g"fkueuugf"kp"vjg"5.9 GHz NPRM."vjg"W/PKK"dcpfu"vjcv"urcp"o wej"qh"vjg"7" I J | " dcpf"rnc{"c"etwekcn"tqng"kp"ceeq o o qfvcvkp i"vjg"pggf"u"qh"dwukpguugu"cpf"eqpuw o gtu"htq"hkzgf"cpf"o qdkg" dtqcf"dcpf"eq o o wpkecvkqpu"cpf"tgrtgugpv" c"eqtg"eq o rppgpv"qh"vqfc{ou"wpnkegpugf"fgxkeg"gequ{uvg o 062" Y jgp"urgekhkecm{"rtqrqkpi"vq"cwvjqt|g"wpnkegpugf"qrgtcvkqpu"kp"vjg"nqygt"67"o gicjgtv|"qh"vjg"70;" I J | " dcpf."y g"gzrnckpgf"vjcv"vjku"rctvkewnt"urgetw o"ku"gurgekcm{"y gmn/rqukvkqpgf"vq"fgnkxgt"ko o gfkcvg"cpf" ukiphkecpv"dgpgkhvu"htq"wpnkegpugf"fgxkegu"cpf"ecp"jgnr"vjg"Eq o o kuukqp"o ggv"vjg"eqpvkpwgf"fg o cpf"htq" urgetw o"ceegu063"Y g"pqvgf"vjcv"vjku"67"o gicjgtv|"qh"urgetw o"eqwnf"dg"eq o dkpgf"y kvj"vjg"cf"lcegpv"W/ Pkk/5"dcpf"70947/70:72" I J |"vq"rtqxfkg"cnctig"eqpvk i wqwu"dnqem"qh"wpnkegpugf"urgetw o"vjcv"eqwnf" ceeq o o qfcvg"cxctkv{"qh"qrkvkqpu o kpenwfkpi"vyq":2/o gicjgtv|"Y k/Hk"ejcppgnu."hqwt"62/o gicjgtv|"Y k/ Hk"ejcppgnu."qt"cu"up i ng"eqpvk i wqwu"382/o gicjgtv|"Y k/Hk"ejcppgn0"Y g"hwvtjgt"pqvgf"vjcv."dgecwug"vjg" 70:72/70:7;" I J |"uwd/dcpf"ku"cf"lcegpv"vq"vjg"W/PKK/5"dcpf"vjcv"uwr rqtvu"wpnkegpugf"qrgtcvkqpu." gswkr o gpv"o cpwhcevtgtu"ujqwnf"dg"cdng"vq"tgcfnk{"cpf"equv/ghhgevkn{"o cpwhcevtgt"fgxkegu"vq"gzrcpf" qrgtcvkqpu"kpqv"vjku"uwd/dcpf064"Y g"uqwi jv"eq o o gpv"qp"qwt"rtqrqucn"vq"cwvjqt|g"wpnkegpugf"qrgtcvkqpu" kp"vjku"rctvkewnt"urgetw o"kp"vjg"70;" I J |"dcpf065"

3:04 "Vjg"Y k/Hk" Cnkcpeg."Y ktngnuu"Kpvgtpgv"Ugtxkg"Rtqxfgtu"Cuudekcvkq*"Y KURC+."PEVC"o Vjg"Kpvgtpgv" ("Vgngxkukq*"Cuudekcvkq*"PEVC+."PVEC"o"Vjg"Twtcn"Dtqcf"dcpf"Cuudekcvkq*"PVEC+." Dtqcf"eq o lHcegdqgm."Ekueq"U{uvg o u."Kpe0"Ekueq+."Eq o ecuv"Eqtrqtcvkq*"Eq o ecuv+."cpf"qvjgtu"uwr rqtvu" qwt"rtqrqucn"htq"o cmkpi"vjku"67"o gicjgtv|"cxkncdng"htq"wpnkegpugf"qrgtcvkqpu066"Eq o ecuv"uvcv"vjcv"vjg" Eq o o kuukqpou"rtqrqucn"yqwnf"rtqfweg"c"eqpvk i wqwu"382/o gicjgtv|"wpnkegpugf"ejcppgn"vjcv"ecp"dg"wgugf" qp"c"y kfgurtgcf"dcuku."uwr rqtvkpi"pgzv/i gpgtcvkq*"Y k/Hk."cfxcpeki"7I."cpf"cf ftguukpi"vjg"uvtckp"qp" vqfc{ou"qxgtdwtfgpgf"Y k/Hk"htgswgpeku067"Dtqcf"eq o"cpf"lHcegdqgm"uvcv"vjcv"vjg"cf fkvkqpcn"67" o gicjgtv|"qh"vjg"W/PKK/6"dcpf"eq o dkpgf"y kvj"vjg"gzkukpi."cf"lcegpv"W/PKK/5"dcpf"y kmn"gpdcng"vjg" fgrnq{ o gpv"qh"pgzv/i gpgtcvkq*"Y k/Hk."y jkej"qrgtcv"qp"y kfgt"ejcppgnu"cmnqy kpi"i ki cdkv"eqppgevkxv{" y kvj"nqygt"ncvgepe{"k o rtqxf"eqxgtcig."cpf"r qygt"ghhkegpe{"vq"dg"fg rnq{gf"kp"vjg"dcpf068"Rtqrqpgvu"qh" KVU."j qy gxt."qr rqug"ugrctcvkpi"vjg"dcpf"kpqv"ugi o gpvu"cpf"gzrcpfkpi"wpnkegpugf"wg"vq"vjg"nqygt"67" o gicjgtv|0"7I" Cwvq o qvkg"Cuudekcvkq*"7I CC+."vjg" Cnkcpeg"htq" Cwvq o qvkg"Kppqxcvkq*"vjg" C o gtkcep" Rwdnke"Vtcurqtvcvkq*"Cuudekcvkq*"CRVC+."Ect"4"Ect"Eq o o wpkecvkq*"Eqpuqtvkw o"Ect"4"Ect+."Vq{qvc" Oqvqt"Ptqvj" C o gtkcep."Kpe0"Vq{qvc+."cpf"ugxgtcn"qvjgt"eq o o gpvgtu"i gpgtcn{"eqpvgpf"vjcv"cn"97" o gicjgtv|"ku"pggf"htq"KVU069"Vjg" W0U0" FQV"cuuq"eqpvgpfu"vjcv"vjg"hwnt"97"o gicjgtv|"qh"vjg"70;" I J | "

62"5.9 GHz NPRM."56"HEE"Tef"cv"3482;" rctcl0"35/360"

63"5.9 GHz NPRM."56"HEE"Tef"cv"34832." rctcl0"380"

64"5.9 GHz NPRM."56"HEE"Tef"cv"34832." rctcl0"380"

65"5.9 GHz NPRM."56"HEE"Tef"cv"34832/33." rctcl0"390"

66"See."e.g.."Y k/Hk" Cnkcpeg"Eq o o gpvu"cv"4/6."Y KURC"Eq o o gpvu"cv"3/4."PEVC"Eq o o gpvu"cv"3/5."PVEC" Tgrn{"cv" 3."Dtqcf"eq o lHcegdqgm"Eq o o gpvu"cv"3."Ekueq"Eq o o gpvu"cv"36/38."Eq o ecuv"Eq o o gpvu"cv"9/320"

67"Eq o ecuv"Eq o o gpvu"cv"8/90"

68"Dtqcf"eq o lHcegdqgm"Eq o o gpvu"cv"3/40"

69"7I CC"Eq o o gpvu"cv"58"eqpvgpfkpi"vjcv"vjg"rwdnke"kpvgtpgv"ku"pqv"dguv"ugtxgf"d{"o cmkpi"vjg"nqygt"67"o gicjgtv|" qh"vjg"70;" I J |" dcpf"cxkncdng"htq"wpnkegpugf"ugtxkegu"i kxgp"vjg"tgegpv"j kuvqt{"qh"vjg"Eq o o kuukqpou"wpnkegpugf" ghhtvu-"rtqrqkpi"vjcv"uq o g"rqtvkqpu"qh"vjg"70;" I J |" dcpf"dg"cxkncdng"htq"E/X4Z"vge jppnqi {"cpf"qvjgt"htq" FUTE" vge jppnqi {"+ "Cnkcpeg"htq" Cwvq o qvkg"Kppqxcvkq*"Tgrn{"cv"4;"*tgeq o o gpfkpi"vjcv"htq"vjg"htuv"7" {gctu"chvt"cf qrvkq*" vjg"Eq o o kuukqp"ujqwnf"tgugt"vjg"wr rgt"42"o gicjgtv|"qh"vjg"70;" I J |" dcpf"htq"Nqpi"Vgt o Gxqnwvkq*"Egnmwnct/ Xgjkeng"vq"Gxgt{"v kpi"NVG"E/X4Z+."tgugt"vjg"nqygt"42"o gicjgtv|"qh"vjg"70;" I J |" dcpf"htq" FUTE."cpf"o cmg"vjg" o kffng"52"o gicjgtv|"qh"vjg"70;" I J |" dcpf"cxkncdng"qp"r tkqtkv{"dcuku"htq" Pgzv/ I gp" FUTE"cpf" C fxcpeg"7I + "E/ X4Z"cr rkecvkqpu"cu"vjg"ctg"fgxgnrgf"cpf"fg rnq{gf+"CRVC"Eq o o gpvu"cv"4"eqpvgpfkpi"vjcv"vjg"70;" I J | " urgetw o"ku"guugpvkcn"htq"ewttgpv"cpf"hwvtg"uchgv{"etkvecn"eq o o wpkecvkqpu"u {uvg o "fgrnq{ o gpvu"kp"cm"v {"rgu"qh" xgjkeng."kpenwfkpi"vjg"ug"ugtxkpi"vjg"pggf"u"qh"rwdnke"vtpurqtvcvkq+"Ect"4"Ect"Eq o o gpvu"cv"3"rtgugt"vjg"97/ o gicjgtv|"urgetw o" dcpf"htq"vtpurqtvcvkq"uchgv{"+ "Vq{qvc" Tgrn{"cv"7"wtigu"o ckpckkpi"vjg"gpvktg"97"o gicjgtv|"qh" *eqpvkpwgf i 0+ "

dcpf"ujqwnf"dg"tgvcpgf"hqt"uchgv{"cpf"qvjgt"vtcpurqtvcvkqp"rwtrqgu06:""kp"cf fkvkqp."uq o g"eq o o gpvgtu" jcxg"uwi i guvgf"vjcv"y g"rqurppg"eqpukfgtvcvkqp"qh"qwt"rtqrqucn"hqt"ugxgtcn" o qtg{"gctu"vq"ugg"kh"KVU" rtqxfkg"tuep"uwduvcpvkcn{"k o r ng o gpv"qrgtcvkqpu"kp"vjg"70;" I J |"dcpf06:"

420A Y g"cfqrv"qwt"rtqrqucn"vq" o cmg"vjg"67" o g i c j g t v | " c v 7 0 : 7 2 / 7 0 : ; 7 " I J | " c x c k n c d n g " h q t " w p n k e g p u g f " q r g t c v k q p u 0 " Y g " d g n k g x g " v j c v " v j k u " c r r t q c e j " y k m " r t q x k f g " v j g " C o g t k e c p " r w d n k e " y k v j " v j g " o q u v " g h h k e k g p v " w u g " q h " u r g e v t w o . " d c u g f " q p " e w t t g p v " c p f " h w w t g " p g g f u 0 " V j g " e q o d k p c v k q p " q h " v j g " W / P K K / 5 " d c p f " y k v j " v j k u " p g y " W / P K K / 6 " d c p f " k u " i t g c v g t " v j c p " v j g " u w o " q h " k v u " r c t v u 0 " Y j g t g c u " v j g " w r r g t " r q t v k q p " q h " v j g " W / P K K / 5 " d c p f " e c p " q p n { " u w r r q t v " c v " o q u v " p p g " : 2 / o g i c j g t v | " e j c p p g n " c p f " v j g " W / P K K / 6 " d c p f " * k p " k u q n c v k q p + " e q w n f " q p n { " u w r r q t v " c " u k p i n g " 6 2 / o g i c j g t v | " e j c p p g n . " v q i g v j g t " v j g { " e c p " g p c d n g " c " u k p i n g " 3 8 2 / o g i c j g t v | " e j c p p g n " h q t " W / P K K " q r g t c v k q p u 0 " P q v " q p n { " k u " v j k u " v j g " y k f g u v . " j k i j g u v " v j t q w i j r w v " e j c p p g n " r g t o k v g f " v q f c { " d { " k p f w u v t { / f g x g n q r g f " u v c p f c t f u " h q t " W / P K K " f g x k e g u . " k v " k u " c n u q " v j g " q p n { " 3 8 2 / o g i c j g t v | " y k f g " e j c p p g n " e w t t g p v n { " c x c k n c d n g " d g n q y " 8 " I J | " p q v " t g s w k t g f " v q " w u g " f { p c o k e " h t g s w g p e { " u g n g e v k p * F H U + 7 2 " v g e j p q n q i { 0 " V j w u . " v j g " g p v k t g { " q h " v j g " W 0 U 0 " y q w n f " j c x g " e q p v k p w q w u " c e e g u u " v q " v j k u " y k f g " e j c p p g n 0 "

430A E q o o g p v g t u " y j q " u w r r q t v " o c m k p i " v j k u " 6 7 " o g i c j g t v | " q h " u r g e v t w o " c x c k n c d n g " h q t " w p n k e g p u g f " q r g t c v k q p u " c i t g g " v j c v " v j g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " u w d / d c p f " k u " g u r g e k c m { " y g m / r q u k v k p p g f " v q " f g n k x g t " k o o g f k c v g " c p f " r q g p v k c m n { " u k i p k h k e c p v " d g p g h k v u 0 " V j g { " c u u g t v " v j c v " v j k u " u r g e v t w o " y k m " c n n q y " v j g " E q o o k u u k q p " v q " v c m g " r t q c e v k x g " c e v k q p " v q " g p u w t g " v j c v " n k o k v g f " u r g e v t w o " t g u q w t e g u " r t q x k f g " o c z k o w o " d g p g h k v u " v q " C o g t k e c p " e q p u w o g t u " y j q " e q p v k p w g " v q " f g o c p f " c e e g u u " v q " c f f k v k q p c n " w p n k e g p u g f " u r g e v t w o 0 7 3 " V j g { " c n u q " c i t g g " v j c v " r t q x k f k p i " 6 7 " o g i c j g t v | " q h " 7 0 ; " I J | " u r g e v t w o " v j c v " e c p " d g " e q o d k p g f " y k v j " v j g " c f l c e g p v " W / P K K / 5 " d c p f " * 7 0 9 4 7 / 7 0 : 7 2 " I J | + " y k m " r t q x k f g " c " n c t i g " e q p v k i w q w u " d n q e m " q h " u r g e v t w o " v j c v " r t q x k f g u " h n g z k d k n k v { " v q " f g n k x g t " c " y k f g " x c t k g v { " q h " c r n k e c v k q p u o k p e n w f k p i " q p g " 3 8 2 / o g i c j g t v | " Y k / H k " e j c p p g n . " v y q " : 2 / o g i c j g t v | " Y k / H k " e j c p p g n u . " h q w t " 6 2 / o g i c j g t v | " Y k / H k " e j c p p g n u . " q t " g k i j v " 4 2 / o g i c j g t v | " Y k / H k " e j c p p g n u 0 7 4 "

440A Y g " g z r g e v " v j g " d g p g h k v u " c t k u k p i " h t q o " v j k u " t g c n n q e c v k q p " q h " v j g " n q y g t " d c p f " y k m " d g " c x c k n c d n g " v q " C o g t k e c p " e q p u w o g t u " u j q t v n { " c h v g t " v j g " t w n g u " k p " v j k u " r t q e g g f k p i " d e e q o g " g h h g e v k x g 0 " E q o e c u v " u w d o k v u " v j c v . " d g e c w u g " q h " k v u " r t q z k o k v { " v q " v j g " W / P K K / 5 " d c p f . " q p n { " u q h v y c t g " q t " h k t o y c t g " w r i t c f g u " v q " o w e j " q h " v j g " Y k / H k " g s w k r o g p v " c n t g c f { " f g r n q { g f " c p f " q r g t c v k p i " c t g " p g g f g f " v q " c m q y " e q p u w o g t u " v q " c e e g u u " v j g " 7 0 ; " I J | " u r g e v t w o . " c " d g p g h k v " v j c v " y q w n f " p q v " d g " r q u u k d n g " k p " c p { " q v j g t " d c p f 0 7 5 " P E V C " c i t g g u " v j c v . " u k p e g " v j g " 7 0 ; " I J | " d c p f " k u " c f l c e g p v " v j g " W / P K K / 5 " d c p f . " g z k u v k p i " Y k / H k " c e e g u u " r q k p v u " y k m " d g " c d n g " v q " w u g " v j g " d c p f " k o o g f k c v g n { . " y k v j " q p n { " u q h v y c t g " q t " h k t o y c t g " e j c p i g u . " u c x k p i " { g c t u " q h " f g n c { " e q o r c t g f " v q " c p { " q v j g t " d c p f " c p f " n q y g t k p i " e q u v u " c e t q u u " v j g " d q c t f 0 7 6 " P E V C " e q p v g p f u " v j c v " u k p e g " o c p { " g z k u v k p i " 7 " I J | / e c r c d n g " f g x k e g u " e c p " v c m g " c f x c p i c i g " q h " 7 0 ; " I J | " u r g e v t w o " y k v j " u q h v y c t g " q t " h k t o y c t g " e j c p i g u . " v j g " e q p i g u v k q p / g c u k p i " e c r c e k v { " c v g p f c p v " y k v j " c f f k p i " p g y " w p n k e g p u g f " u r g e v t w o " k p " v j g " 7 0 ; " I J | " d c p f " y k m " d g p g h k v " e q p u w o g t u " x g t { "

urgetw o "kp"vjg"70;" I J |"dcpf"qwt"KVU."eqpvgpfkpi"vjcv"y kfg"cpf"fkxgtug"i tqwr"qh"uvcmgjqnfgtu"ykvj"cuwtpi"cpf" gpfwtkpi"eq o o kv o gpv"vq"vtcpurqtvcvkqp"uchgv{"ctg"wpkvf"kp"y c p v k p i " c m n " 9 7 " o g i c j g t v | " q h " u r g e v t w o " h q t " K V U + 0 "

6: "W0U0" FQV" Tgrn { "cv"5* hknf" w p f g t " P V K C + 0 "

6: "See, e.g.." C r n k g f " k p h q t o c v k q p " E q o o g p v u " c v " 5 * t g e q o o g p f k p i " v j c v " K V U " j c x g " c p q v j g t " u g x g p " { g c t u + 0 "

72: "F { p c o k e " H t g s w g p e { " U g n g e v k p " k u " c " o g e j c p k u o " v j c v " f { p c o k e c m n { " f g v g e v u " u k i p c n u " h t q o " q v j g t " u { u v g o u " c p f " c x q k f u " e q / e j c p p g n " q r g t c v k q p " y k v j " v j g u g " u { u v g o u . " p q v c d n { " t e f c t " u { u v g o u 0 " 6 9 " E H T " E 3 7 0 6 2 5 0 "

73: "See, e.g.." P E V C " E q o o g p v u " c v " ; / 3 3 = " Y K U R C " E q o o g p v u " c v " 4 0 "

74: "See, e.g.." E q o e c u v " E q o o g p v u " c v " : / ; = " Y K U R C " T g r n { " c v " 9 = " L q k p v " T g r n { " q h " D t q c f e q o " c p f " H c e g d q m " c v " 5 = " Y k / H k " C m n k p e g " E q o o g p v u " c v " 6 = " N g v g t " h t q o " V k e i q " T q f t k i w g u . " E G Q . " Y k t g n g u u " D t q c f d c p f " C m n k p e g . " v q " O c t n g p g " J 0 " F q t v e j . " U g e t g v c t { " H E E . " G V " F q e m g v " P q 0 3 ; / 3 5 : . " c v " 3 * h k n g f " P q x 0 3 2 . 4 2 4 2 + * Y k t g n g u u " D t q c f d c p f " C m n k p e g " P q x 0 3 2 . 4 2 4 2 " E x P a r t e + 0 "

75: "See E q o e c u v " E q o o g p v u " c v " : 0 " H k t o y c t g " k u " u q h v y c t g " v j c v " k u " g o d g f f g f " k p " c " r k e g e " q h " j c t f y c t g 0 " See N k h y k t g . What is Firmware? C " f g h k p k v k q p " q h " h k t o y c t g " c p f " j q y " h k t o y c t g " y q t m u . d { " V k o " H k u j g t " * H g d 0 4 : . 4 2 4 2 + . " j w r u k l n k h g y k t g 0 e q o l y j c t / k u / h k t o y c t g / 4 8 4 7 : : 3 0 "

76: "PEVC"Eq o o g p v u " c v " 3 2 0 "

swkenn{077""Wpfgt"vjg"Eq o o kuukqpou"gs wr o gpv"cwvj qtk|cvkqp"twngu"cpf"rqnekgu."c"ejcpig"vq"cp"cr rrtqxfg" fgxkeg"vq"cf"fc"pgy"htgswgpe{"dcpf"uwdlgev"vq"pgy"vgejpkcn"tgs wktg o gpvu"ku"rgt o kvvgf"cu"c"Encuu"KK" rgt o kuukxg"ejcpig"htq"cf"fgxkeg"pqv"cr rrtqxfg"cu"Uqhv y ctg" Fghkpgf" Tcfkq."cu"nqpi"cu"uwej"ejcpigu"ctg" rgtqto g f" d{"uqhv y ctg"cpf"fq"pqv"tgs wktg"cp{"jctf y ctg"ejcpigu078"" Y g"cpvkekr cvg"vjcv" o cp{" Y k/Hk"ceeguu" rqpvu"ewttgpnv{"qrgtcvkpi" wukpi" W/PKK/5"urgetv o ."kp"cf fvkqp"vq"dgkpi"ecrcdng"qh"uqhv y ctg"wr i tcfgu." y knn" dg"cdng"vq" o ggv"vjg"tgs wktg o gpvu" y g"cf qrv"htq"kp fqqf/qpn{" fgxkegu079"

450A Cf fvkqpcnn{" rtrqrpqpvu"qh"wpnkegpugf"qrgtcvkqpu" i gpgtcnn{"ci tgg"vjcv"gs wr o gpv" o cpwhcevwgtu" y knn"dg"cdng"vq"tgc fkn{"cpf"equv/ghhgevkvxgn{" o cpwhcevwgtg"pgy" fgxkegu"ecrcdng"qh"gzrcpfkpi" qrgtcvkqpu"kp"vjg" W/PKK/5"dcpf"vq"kpewfvg"vjku"uwd/dcpf07:""Vjg"twngu"cf qrvvgf"vq"fc{" y knn."kp"eq o dkpcvkqp" ykvj"vjg"qg"twngu"i qxgtkpi"vjg"cf lcegpv" W/PKK/5"dcpf."gpcdng"vjg"htuv"eqpvki"qvwu"382/o gicjgtv|"ejcppgn" htq" W/PKK"fgxkegu" dngq y"8" I J |"vjcv" y knn"pqv"tgs wktg" wug"qh" FHU"kpvgthgtgpeg" o kvki"cvkqp"vgejppnqikgu."vjg" gswkr o gpv"cr rrtqxcn"rtqeguu" y knn"dg"uvtck i j"vhtq y ctg"cpf"pqv"gpvckn"cf fvkqpcn"eq o rngz"vguvu"vq" xgthk{" FHU" qrgtcvkqp07" Vjg" Y k/Hk" Cnnkpeg"uvcvgu"vjcv"tgs wktkpi"vjg" wug"qh" FHU"vgejppnqikgu" y qwnf" k o rgfg"urgetv o " wug"kp"uq o g"ecugu"dgecwug"kv"ecppqv"dg"ceeq o o qfcvfg" d{"uq o g"cr rnkcevkqpu."tgs wktg"cf fvkqpcn" egtvkhkcevkqp"cpf"cr rrtqxcn."gzvvpfki"vk o g/vq/ o ctmgv."cpf"cf f"vq"fgxkeg"fgukip"eq o rngzkv{"cpf"equvu07:" Eq o ecuv"uvcvgu"vjcv" gswkr o gpv" fgxgnqrgf" y kvj qww" FHU"htq"vjg"70;" I J |"dcpf" y knn"dg"cxckcdng"uqqpvt"vjcp" gswkr o gpv"uwdlgev"vq" FHU"vguv"rtqegfwtgu082""kp"vjg"70;" I J |"dcpf."pqv"cf qrvkpi" c"tgs wktg o gpv"vjcv" wpnkegpugf" fgxkegu"kp eqtrqtcvg" FHU"vgejppnqikgu" o gcpu"vjcv"vjg" gswkr o gpv"cr rrtqxcn"rtqeguu" y knn"dg" uvtck i j"vhtq y ctg"cpf"pqv"gpvckn"cf fvkqpcn"eq o rngz"vguvu"vq" xgthk{" FHU"qrgtcvkqp07" Vjg"tgc fkn{" cxckcdng" 382/o gicjgtv|"ejcppgn" y knn" gpcdng"pgy" cr rnkcevkqpu"vjcv" y knn" jgnr" o ckpvckp"vjg" Wpkvgf"Uvcvgu"tqng"cu"cp" kppqxcvqt"cpf" i nqdcn"urgetv o "rqnke{"ngcfgt0"

460A Cf fvkqpcnn{"kv"cr rrgctu"vjcv" o cp{"yktnguu"Kpvgtgvg"ugtxkeg"rtqxfgtu"* YKURu+"ewttgpnv{" jcxg"vjg"ecrcdngkv{"vq" wug"vjg"67" o gicjgtv|"qh"vjg"70;" I J |"urgetv o "cpf" dngkxg"vjcv"vjg"ku"uwvhkckgpv" ewuvq o gt"fg o cpf"vq" y ctcpv"kvu" wug083"" Y jkng" y g"ctg"pqv"cmq y kpi" qwwfqqt"wpnkegpugf" wug"vq"fc{"cu"c" igpgtcn"twng." y g"ctg" rtrqqukpi" twngu"htq"qwwfqqt" wug"kp"vjg" Hwtv jgt" Pqvkeg" dngq y 07" J q y gxt." y g" o c{"cmq y" uq o g"qwwfqqt"qrgtcvkqpu"kp"egtvckp"urgekkgf"nqecvkqpu"kp"vjg"dcpf"vj tqw i j"vjg"UVC"rtqeguu"*k0g0."qp"c" pqp/kpvgtgtpgpeg"dcuku." y jgtg"uwej"qrgtcvkqpu" y qwnf"pqv"ecwug"jct o hwn"kpvgthgtgpeg"vq"cp{"kpew o dgpv" qrgtcvkqpu0"

470A Y g"eqpenwfg"vjcv"cwvj qtk|kpi"67" o gicjgtv|"qh"urgetv o "htq"wpnkegpugf"qrgtcvkqpu." y jkng"

77" PEVC"Eq o o gpvu"cv"4;0"

78"69"EHT"E"403265="Hgf gtcn"Eq o o wpkevkqpu"Eq o o kuukqp"Qhhkqg"qh"Gpikpggkpi"cpf"Vgejppnqi{"Ncdqtcvqt{" Fkxkukp"Rgt o kuukxg" E jcpig"Rqnke{"cv"7."Ugel"X0"C0."D0."cpf"9."Ugel"X0" I 0"*39 : ;3;"F23"Rgt o kuukxg" E jcpig"Rqnke{" x28+*Qew0"38."4237+."jwru|lcr ru0heei|qx|lqgvehlmfd|htq o ulHVUUGcete j TguwnvRci g0eh o Au y kve j ?R (kf?552350"kp"uwej" c"ecug."vjg"hnkpi"htq" gswkr o gpv"cwvj qtk|cvkqp" o wuu"kpewfvg" c"eq o rngvg"vguv"tgrqtv"fg o qpvtcvkpi"eq o rnkcepg" y kvj"vjg" pg y"twngu"cpf" o c{"cnuq"tgs wktg" c"ejcpig"kp" gswkr o gpv"encuu"cuuqekcvfg" y kvj"vjg"pg y"twngu0"Id0"

79" Yktnguu"Dtqcf dcpf" Cnnkpeg" Pqx0"32."4242" Ex Parte" cv"30"

7:" See, e.g.."Eq o ecuv"Eq o o gpvu"cv";="Qrgp"Vgejppnqi{"Kpvkvwvg"cpf"Rwdnke"Mp q y ngf i g"Eq o o gpvu"cv"9-" Y KURC" Eq o o gpvu"cv"6/70"

7;" Y k/Hk" Cnnkpeg"Eq o o gpvu"cv"60"

82"Eq o ecuv"Eq o o gpvu"cv";0"

83" Y g"pqvg"vjcv"kp"ncvg" Octej."vjg"HEE0u" Yktnguu"Vnggeq o o wpkevkqpu"Dwtgcw"* Y VD+"dg i cp" i tcpvki"vg o rqtct{" ceeguu"vq"70;" I J |"urgetv o "*xkc"UVC+"htq"egtvckp" Y KURu"vjcv"ugtxg"nct i gn{"twtcn"cpf"uwdwtdep"eq o o wplkvgu0"Vjg" UVCu"cmq y" Y KURu"vq" wug"vjg"nq y gt"67" o gicjgtv|"qh"vjg"dcpf"vq" jgnr"ugtxg"vjgkt"ewuvq o gtu0"Vq"fcvg."vjg"HEE"jcu" i tcpvgf"UVCu"vq" o qtg"v jcp"322" Y KURu."cpf" o cp{"qh"vjg"qg"rtqxfgtu"jcxg"tgrqtvfg"vjcv"vjg"urgetv o "ku"jgnrkpi"vq" cf fgtuu"vjg"kp etgcugf"fg o cpf"htq"dtqcf dcpf"cuuqekcvfg" y kvj"vjg"EQXKF/3;"rcpfg o kel0" See"HEE."5.9 GHz Band Boosts Consumer Internet Access During Covid-19 Pandemic."*Oc{"6."4242+."jwru|l y y 0heei|qx|lqgvehlmfd|htq o ulHVUUGcete j TguwnvRci g0eh o Au y kve j ?R (kf?552350"kp"uwej" Yktnguu" Hwvwtg"Rqt i c o."Qrgp"Vgejppnqi{"Kpvkvwvg."vq"Octngpg"J0" Fqtve j."Ugetgvct{"HEE."GV" Fqemv" Pq0"3:/35 : " cv"4"*hngf" Pqx0"33."4242+*Qrgp"Vgejppnqi{"Kpvkvwvg" Pqx0"33."4242" Ex Parte"0"

rtqxfkpi "52" ogicjgtv|hqt"KVU."dguv"ugtxgu"vjg"rwdnke"kpvgtguv0

2. Safety-Related Intelligent Transportation Systems in the Upper 30 Megahertz (5.895-5.925 GHz) of the 5.9 GHz Band

480A Cu"uvcvgf"kp"vjg"5.9 GHz NPRM."yg"tgeqipk|g"vjg"ko rqtvcpeg"qh"rtq o qvki" xgjkewnct" uchgv{ "cpf"qvjgt"dpgghkvu"qh"KVU=" yg"cnuq"ugg"ceqpvpwkp i"tqng"hqt"vjg"70;" I J |"dcpf."cu"rctv"qh"cnctigt" gequ{uvgo"gpdcnkpi"KVU"ugtxkegu."kp"rtqxfkpi"vjgug"dpgghkvu"vq"vjg"Co gkcecp"rwdnke084" Egtvckp"KVU/ tgnvcvgf"hwpevkqpu"ctg"ygmm/uwkvf"hqt"vjg"70;" I J |"dcpf o kpenwfkpi"pqp/nkpg/qh/ukvg"cr rnkcevkqpu"cpf" egtvckp" xgjkevg/vq/kphtcuvtwewwtg"cr rnkcevkqpu o dpf"eqwnf"ko rrtqxs"vtcpurqtvcvkqp"cpf" xgjkewnct/uchgv{ " tgnvcvgf"cr rnkcevkqpu"kp"vjg"eq o kpi" {gctu085"Vjgtghqtg."dcugf"qp"qwt"eqpukfgtcvkqp"qh"vjg"tgeqtf."yg"cfqrv" qwt"rtqrqucn"cpf"yknn"eqpvpwg"vq"o cmg"vjg"wr rgt"52/ogicjgtv|"rqtvkqp"*70: ;7/70;47" I J |"qh"vjg"70;" I J |"dcpf"cxckncdng"hqt"KVU0

490A Qwt"fgekukqp"yknn"gpwtg"eqpvpwgf"cxckncdknv{ "qh"urgetwo"uwhhkekpp"hqt" FUTE"nkegpuggu" vq"eqpvpwgf"gzkuvkpi" rrgtcvkqpu"cpf"fgnq{ "vjqug"ucog"ugtxkegu"cv"uecng0" Yg"eqpenwfg."cu"uwr rqtvgf"d{ " ocp{ "qh"vjg"eq o gpvgtu."vjcv"tgugtxkpi"vjg"gpvtg"70;" I J |"dcpf"hqt"rquukdng"cf fvkqpcn"ugtxkegu"d{ "KVU" nkegpuggu"ku"pqv"vjg"o quv"ghhkekpp"qt"ghhgekxg"wg"qh"vjcv"dcpf."pqt"ku"kv"kp"vjg"dguv"rwdnke"kpvgtguv"vq"fq"uq0" Y KURC"tki jvn{ "rqpvu"qvw"vjcv"vjg"qtki kpcn"eqpegrv"hqt" FUTE"wg"qh"vjg"dcpf"jcu"pqv"eq o g"vq"htwkvkqp." cpf"ejcpi"gu"vq"vjg"dcpf"rncp"yg"cfqrv"q"qxtg"42{ "gctu"ciq"ctg"guugpvkn"vq"o czk o k|g"vjg"wg"qh"vjku" xcnwcdng"urgetwo"hqt"vjg"rwdnke0"i tgcvgu"ygmm/dgkpi."rctvkewctn{ "Co gkcecpu"kp"twctn"ctgcu"vjcv"ncem" c fgswevg"dtqfcdpf"ceegu086"Vq"vjcv"gpv."yg"pqvg"vjcv"o cp{ "qh" Y KURC0"og o dgtu"jcxg"dgpp"cdng"vq" o cmg"vg o rqtct{ "wug"qh"wpwugf"urgetwo"kp"vjg"70;" I J |"dcpf"vq"fgnkxgt"dtqfcdpf"kpvgtpg"ceegu"ugtxkeg" vq"twctn"cpf"wpfgtugtxg"ctgcu"fwtkpi"vjg"ewtgpv"EQXKF/3;"rcpfg o ke087

4:0A Ugxgtcn"hevqtu"i wkg"qwt"fgvgt o kpcvkqp"qh"jqy"o wej"urgetwo"vq"tgvcvkp"hqt"KVU<"*3+"vjg" hcknwtg"qh"vjg"70;" I J |"dcpf"vq"dgeq o g"wg"wdkswkvwun{ "hqt"vjg"dtqf"tcpig"qh"KVU"cr rnkcevkqpu"vjcv"ygtg" qtki kpcn{ "cpvkekrvcgf"=*4+"vjg"uvtqpi"rwdnke"kpvgtguv"dgpgghkvu"vjcv"yknn"ceetwg"d{ "cnnq ykp i"wpnkegpugf"wg"kp" 67"ogicjgtv|"qh"vjg"70;" I J |"dcpf"="cpf"*5+"vjg"pggf"hqt"fgfkecvf"70;" I J |"urgetwo"vq"uwr rqtv"eqtg" xgjkewnct"uchgv{ "cr rnkcevkqpu0" Yg"hkpf"vjcv"tgugtxkpi"52"ogicjgtv|"qh"urgetwo"hqt"KVU"yknn"uwr rqtv"vjg" rrtqxfkqp"qh"eqtg"uchgv{ /tgnvcvgf"hwpevkqpu"cpf"rtqxfkfg"eqpvpwkp i"urgetwo"ceegu"hqt"gzkuvkpi"KVU" nkegpuggu"cwvjqtk|g"kp"vjg"dcpf0

a. 30 megahertz for ITS

4:0A Yjgp"vjg"Eq o o kuukqp"htuv"ugv"cu"fg"vjg"70;" I J |"dcpf"kp"3; ; ;.88"cp"gzvpgukxg"ugv"qh" rqpvpkn" FUTE"cr rnkcevkqpu"ycu"kf"gpvkhgf"hqt"vjg"dcpf o vjki u"uwej"cu"ovtchhke"nki jv"eqvptq."vtchhke" o qpvktpi."vtcxngtu0"cnvtu."cwvq o cvke"vqnn"eqmgevqkqp."vtchhke"eqp i guvkqp"fgvgevqkqp."g o gt i gpe{ "xgjkevg" uk i pcn"rtgg o rvkqp"qh"vtchhke"nki jv."cpf"gngevtqpkp"kpurgvkvq"qh"o qxkpi"vtwemu"vtqwi j"fcvc"vtcpu o kuukqp" ykvj"tqcfukfg"kpurgvkvq"hccknkvgu089"Kp"kvu"4225"Qtfgt."vjg"Eq o o kuukqp"cfqrv"ugtxkeg"twngu"hqt"vjg"

84 5.9 GHz NPRM. 56"HEE"Tef"cv"34833."rctcu0"3:/3;0"

85 5.9 GHz NPRM."56"HEE"Tef"cv"34833."rctcu0"3;0"

86 Y KURC" Tgrn{ "cv"40"

87 See"HEE."5.9 GHz Band Boosts Consumer Internet Access During Covid-19 Pandemic"*Oc{ "6."4242+." jwru1lly y y0heeli qxl f qew o gpv17:/i j |/dcpf/dqquu/eqpuw o gt/kpvgtpg/ceegu/fwtkpi/eqxf/3:/rcpfg o ke0"

88 Amendment of Parts 2 and 90 of the Commission's Rules to Allocate the 5.850-5.925 GHz Band to the Mobile Service for Dedicated Short Range Communications of Intelligent Transportation Services."GV" Fqemgy" Pq0" ;:/;7." Tgrqt"cpf"Qtfgt."36"HEE"Tef"3:443*3; ; ;+*DSRC Report and Order+0"KVU"ku"c"pcvkqpcn"rtqitc o "kpvgpfgf"vq" k o rrtqxs"vjg"ghhkekpe{ "cpf"uchgv{ "qh"uwthceg"vtcpurqtvcvkqp"u{uvgo u0" See"Kpvgto qfcn"Uwthceg"Vtcpurqtvcvkqp" Ghhkekpe{ "Cev"qh"3; ;3."Rwd0"N0" Pq0"324/462."E"8273."327"Uvcv0"3;36*3; ;3+0"

89 Rtgau" Tngcug."HEE."HEE" Cmqcevkqpu"Urgewto"o"kp"70;" I J |"Tcpi g"hqt"Kpvgmki gpv"Vtcpu rqtvcvkqp"U{ uvgo u" Wug" Cevkqp" Yknn"Ko rrtqxs"vjg" Ghhkekpe{ "qh"vjg" Pcvkqpu"Vtcpu rqtvcvkqp"kphtcuvtwewwtg"Qe"43."3; ; ;+ " jwru1l f qeu0heeli qxl rwdnkelcwcj o gpvu1 FQE/399592C30 f qe0"kp" fghkpkpi" FUTE."vjg"twng"uvcvgf"vjcv"vqwnf" *eqpvpwgf i 0+ "

dcpf⁸:"cpf"tgeqipk|gf"vjcv"FUFE"fgrrnq{ o gpv"eqwnf"kpqxng"dqvj "xgjkeng/vq/xgjkeng"*X4X+"cpf"xgjkeng/vq/kphtcuvtwevtg"*X4X+"eq o wpkecvkqpu."cpf"kv"guvcdnkujgf"cv"yq/rctv"nkegpukpi"tgikog"eqpukvki"qh"xgjkeng/o qwpvgf"cpf"rqtvcdng"qp/dqctf"wpkvu"*QDWu+"nkegpugf/d{/twng"wpfgt"rctv"; 7"qh"vjg"twngu"cpf"hkzgf"tqcfukfg"wpkvu"*TUWu+"kpfkxkfwcm{"nkegpugf"wpfgt"rctv"; 2"qh"vjg"twngu⁸:"kp"vjg"tgeqtf"uwr"rqtvkpi"vjcv"fggekukp."pw o gtqwu"rctvku"fguetkdgf"cp"gpixtqp o gpv"y jgtg"dqvj"rwdnke"uchgv{"cpf"rtkxcvg"uugtu"y qwnf"ujctg"vjg"dcpf."ykvj"rtqvqequ"vq"gpuwtg"vjcv"rwdnke"uchgv{"cevkxkvgu"*fghkpgf"gzrcpukxgn{+"y qwnf"jcxg"rtkqtv{"qxgt"rtkxcvg"vtcpu o kuukqpu⁹²ⁿ

520^h Kp"vjg"42{"gctu"ukpeg"vjg"Eq o o kuukqp"fgukipcvvf"vjg"70;" I J | "dcpf"hq"FUFE"wug."egtvckp"xgjkeng/vq/xgjkeng"*X4X+."xgjkeng/vq/kphtcuvtwevtg"*X4X+."cpf"xgjkeng/vq/gxgt{vjki"*X4Z+"dcuke"uchgv{"cpf"tgncvgf"cr rnkcevkqpu"jcxg"dggp"uvcpfctfk|gf0"Vjg"vgejpkcn"uvcpfctfu"hq"vjgug"dcuke"xgjkeng/vq/xgjkeng"cpf"xgjkeng/vq/kphtcuvtwevtg"cr rnkcevkqpu"*g0i0."Dcuke"Uchgv{"Oguucig."Rgtuqpcn"Uchgv{"Oguucig."cpf"tgncvgf"cr rnkcevkqpu+"ygtg"fgxngrgf"cpf"uvcpfctfk|gf"ugxgtn{"gctu"ciq o kpfggf."vjg"FUFE"302"uvcpfctf"ycu"tgngcugf"kp"42280⁹³ⁿ

530^h Dww"cevwn"FUFE/dcugf"KVU"ugtckeg"jcu"pqv"dggp"ykfgn{"fgrrnq{gf0"Vjgtg"ctg"33:"cevkxg"FUFE"nkegpugu"kp"vjg"Eq o o kuukqpou"fcvcdcu⁹⁴ⁿ"Ceeqtfkpi"vq"vjg"C o gktecp"Cuukecvkqp"qh"Uvcvg"

o rgthqt o "qr gtcvkqpu"tgncvgf"vq"vjg"ko rrtqxo o gpv"qh"vtchhke"hnq y."vtchhke"uchgv{"cpf"qvjgt"kpvgmki gpv"vtcpurqtvckqp"ugtckeg"cr rnkcevkqpu"kp"cxctkv{"qh"rwdnke"cpf"eq o o gtekc"gpixtqp o gpvu00"DSRC Report and Order"Cr rzl0"C."69"EH0T0E"; 2090

⁸:"Amendment of the Commission's Rules Regarding Dedicated Short Range Communications Services in the 5.850-5.925 GHz Band (5.9 Band); Amendment of Parts 2 and 90 of the Commission's Rules to Allocate the 5.850-5.925 GHz Band to the Mobile Service for Dedicated Short Range Communications of Intelligent Transportation Services."GV"fqemgv"Pq0"; :/; 7."Tgrqtv"cpf"Qtfgt."3;"HEE"Te"467:"*4225+"DSRC Service Rules Order+0 See also"69"EHT"ÈÈ"; 2059;"cpf"; 70537;"*kpeqrqtcvkpi"d{"tghgtgpeg"vjg"C o gktecp"Uqekv{"hq"Vgukpi"cpf"Ocvgtkcu"*CUVO+"G4435/25"FUFE"uvcpfctf"*vjg"CUVO/FUTE"Uvcpfctf+0"kp"4232."KGGG"cfqrvgf"cp"y"uvcpfctf."; 24033r."hq"y ktnguu"ceeguu"kp"xgjkewnc"gpixtqp o gpvu0"See"jwru<|uvcpfctfu0kku0f0q0i0qxlUvfuUw o o ct{|Uvcpfctfu I tqwrAuvfi tqwr ?6290"Qwt"twngu"eqpvkpwg"vq"tghgtgpeg"vjg"CUVO/FUTE"Uvcpfctf0

⁸:"C"tqc fukfg"wpkvu"*TUW+"ku"cvtpuegkxgt"vjcv"ku"o qwpvgf"cnqpi"c"tqcf"qt"rgfgvutkcp"rcuucigyc{0"CP"UW"o c{"cnuq"dg"o qwpvgf"qp"cxgjkeng"qt"jcpf/ectkfg."dww"kv"o c{"qr gtcvg"qpn{"y jgp"vjg"xgjkeng"qt"jcpf/ectkfg"wpkv"ku"uvcvkqpc{0"CP"UW"dtqcfecuu"fcvc"vq"qp/dqctf"wpkvu"*QDWu+"qt"zgejcpiguf"cv"ykvj"QDWu"kp"kv"eq o o wpkecvkqpu"|qpg0"UWu"qr gtcvg"wpfgt"rctv"; 2"qh"vjg"Eq o o kuukqpou"twngu."y jkng"qp/dqctf"wpkvu"*QDWu+"ctg"o qwpvgf"kp"xgjkeng"qt"ctg"rqtvcdng"wpkvu"cpf"ctg"nkegpugf"d{"twng"wpfgt"rctv"; 7"qh"vjg"Eq o o kuukqpou"twngu0"Rqtvcdng"UWu"o c{"dg"qr gtcvgf"wrqpi"tcp"qh"vjg"igqi"tcrjke/ctgc"nkegpug0"Nkegpuggu"o wu"tgi"kvgt"cr rtrt"tkcv"fcvc"*g0i0."ejcppgu."nqecvkq."r qygt."gve0"hq"gcej"hkzgf"ukv"UW"ykvj"vjg"Eq o o kuukqp"rtkqt"vq"kvu"qr gtcvkqpu0"Y jkng"pq"kp"fkxkfwcm"nkegpug"ku"tgswtgf"vq"qr gtcvg"cp"QDW."uwej"wpkvu"o c{"qpn{"vtcpu o kv"fcvc"cuukecvgf"ykvj"cxcnk"rctv"; 2"nkegpug0

⁹²"See, e.g0."KVU"C o gktec"Eq o o gpvu."GV"fqemgv"Pq0"; :/; 7."cv"4"*oFUFE/dcugf"KVU"ugtckegu"y km"rtqxfg"vjg"vtcxgnki"rwdnke"ceeguu"xc"cv"y ktnguu"nkpm"vq"cv"ykfg"cxctkv{"qh"rwdnke"uchgv{"cpf"pqp/rwdnke"uchgv{"ugtckegu"cpf"kphtq o cvkqpu0"Vjgtqwi"j"cp"kpucnngf"vtcpuegkxgt"wpkv"kp"cxgjkeng."hq"gzc o rng."c"ftkxgt"eqwnf"rc{"vqnu."rc{"hq"rctmkpi."tgekgx"vtchhke"cpf"tqcf"eqpfkqkq"wr fcvgu"cpf"jget"rwdnke"uchgv{"yctkpi"o guuciguo0="OCTM"KX"kp"fwvutku"NVF"Trn{"GV"fqemgv"Pq0"; :/; 7."cv"3"*oYg"rtqrqvg"vjcv"vjg"ueqrg"qh"uwej"Rwdnke"Uchgv{"wugu"dg"gzrcpukxg"cpf"kpewukxg"uq"vjcv"cn"qh"vjg"rwdnke"hwpevkqpu"tgncvgf"vq"gngevtqpk"vqnu"eqngevqkq."vtchhke"o qpvqtkpi."eq o o gtekc"n"xgjkeng"cpf"cktrqt"hecnk"v"ceeguu"qr gtcvkqpu."kp"cf"fkvq"vq"o cp{"qvjgtu."ctg"kpewnf"gf00="Vgejpkcn"Chhcktu"Eq o o kvvg"qh"vjg"Cuukecvkqpu"qh"Kpvgtcvkqpcn"Cwvq o qdkng"Ocpwhcevtgtu"Trn{"GV"fqemgv"Pq"; :/; 7."cv"30

⁹³"C"FUFE"Heev"Ujggv"ycu"tgngcugf"d{"W0U0"QVU"kp"Ugrvg o dgt"422;. "dcugf"qp"vjg"fgg o dgt"4228"Xgtukqp"302"qh"vjg"FUFE"uvcpfctf0"kv"uvcvgu<ov"vjg"dcuke"uchgv{"o guucig"eqpvkpu"xgjkeng"uchgv{/tgncvgf"kphtq o cvkqpu"vjcv"ku"rgtkfkccm{"dtqcfecuu"vq"uwtqwpfkpi"xgjkenguo0"See"jwru<|uvcpfctfu0kku0f0q0i0qxlHcevu jggvulHcevu jggvul930"Vjg"ncvgu"xgtukqp"qh"vjg"FUFE"o guucig"uvcpfctf"ycu"rwdnkujgf"kp"42380"See"jwru<|uvcpfctfu0kku0f0q0i0qxlUvfuUw o o ct{|Uvcpfctfu I tqwrAuvfi tqwr ?6290

⁹⁴"HEE"WNU"fcvcdcu"kpswkt{"qh"Qevqdt"48."42420"CP"cwvjqtk|cvkqpu"vq"qr gtcvg"kp"vjg"FUFE"ugtckeg"o c{"dg"qdvckpgf"d{"cp{"vgtkvqt{."rquguukqpu."uvcvg."ekv{"eqwv{."vqyp."qt"uk o knct"ixgtg o gpcn"gpvk{"=cpf"cp{"rwdnke"uchgv{"*eqpvkpwgf i 0h"

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540A Ogcpy jkng. "pw o gtqwu"vge jppnqikgu"vjcv"qrgtvcvg"qwukfg"vjg"70 ; " I J | "dcpf" jcxg"dgpp"qt" ctg"dgkpi" fngxnqrgf"cpf" fgrnq{gf"qp"cykfge"uecng"vj tqw i j qww"vjg" xgjkewnc" o ctmgvrnceg. "kpewfkipi"vjg" eq o o gtekc"n eqpuw o gt"cvvq o qdkng" o ctmgv. "vq" k o rrtqxs"vtcurqtvcvkqp"uchgv{ "cpf"ghhkekge{0" C f fkvkqpcn{ . " uchgv{ "cpf"eqpxgpkgep"hgcvwtgu"ctg"ketgcu"i n{ "dgkpi"kpvi"tcvgf"kpva"egnr j qpg"cr ru"cpf"eqppge"vq"qp/ dqctf" fkurnc{u"vj tqw i j"wpnkegpugf"urgetw o "rtvqecnu0" Hqt"gzc o rng. "vjg" Y c | g" ftkxkpi"cr r" wugu"tgcn/vk o g" fvc"uqwtgf" d{ "qvjg" ftkxgtu"vq" fgnkxgt. "c o qpi"qvjg"vjkipi u. "wr fcvgf"ceekfgpv"cpf"eqpuvtwekqp" | qpg"

qt"kp f wuvtkcnldwukpguu"gpvk{ " o ggkpi"vjg"rgtvcvkpp"gnk i kdnkv{ "tgs wktg o gpvu0"Rtkt"vq"qrgtvcvkqp. "cr rnkccpvu"ctg"kuuwgf" c" pqp/gzenwukxg. " i gq i tcr jke"ctgc"nkegpug<" i qxgtp o gpvcn"gpvkvgu"ctg"cwv j qtk | gf"dcugf"qp"vjcv"gpvk{ 0u"ng i cn" lwtku fkwkqpcn"ctgc"qh"qrgtvcvkqpu="cpf"pqp/ i qxgtp o gpvcn"gpvkvgu"ctg"nkegpugf"dcugf"qp" gcej "cr rnkccpvu"ctgc"qh" qrgtvcvkqp" *k0g0. "d{ "eqwv{ . "uvcvg. " o wnvk/uvcvg. "qt"pvcqpykf g+0" See 69" EHT" E" ; 205950"

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96"See, e.g.. "Ngwgt"htq o "Uvgxgp"Ngfgt o cp. "Eqwpu"ht"KVU" C o gtekc. "vq" Octngp" J0" Fqtve j. "Ugetgvct{ . "HEE. "GV" Fqemg" Pq03 ; /35. : . "cv Cwcej o gpv" *unkfg" fgem+ "hkngf" Qev0. : . "4242+ " *fkuewuupki" fgrnq{ o gpv"qh" X4Z"kp" Pgy [qtm" Ekv{ . "Okejki cp. "Vc o rc. "cpf"Vgzcu+0"

97" Ceeqtfkpi"vq" W0U0" FQV. "kv" jcu" rrtqxfgf" o qtg"vjcp" &3" dknkqp"kp" hwpfkpi"htq" FUTE"vguvkpi"cpf" fgrnq{ o gpv0" PEVC"Eq o o gpvu"cv"34" *ekvkpi" W0U0" FQV" Hgdwtct{ "420"4242"unkfg" fgem+ " " Preserving the 5.9 GHz Safety Band for Transportation, "cv"unkfg"4" *Hgd0"42. "4242+. " jwruclly y y/vtcurqtvcvkqpl0i xltgugctej/cpf/ vgejppnqi | rrtgugtkpi7 ; i j | /uchgv/ dcpf/vtcurqtvcvkqp/20"Uvcvg"cpf"eqwv{ "FQV"ci gpekgu" jcxg"cnuq"kuuwgf" i tcvpu" ceeqtfkpi"vq"vjg" C o gtekc" Cuuqekvkqp"qh"Uvcvg" Jki jyc{ "cpf"Vtcurqtvcvkqp"Qhhkekcnu"CCUJVQ+0" See CCUJVQ" Eq o o gpvu. "Lwn{ "9. "4238. "cv ; /38"vq"70 ; " I J | "Public Notice. "GV" Fqemg" Pq035/6 ; . "53"HEE" Tef"8352" *4238+0"

98" Hqt"gzc o rng. "vjg" C o gtekc" Cuuqekvkqp"qh"Uvcvg" Jki jyc{ "cpf"Vtcurqtvcvkqp"Qhhkekcnu"CCUJVQ+"uvcvg"vjcv"vjg" Ecnkhtqpk" FQV" *EcnVtcpu+"cpf"vjg" Wpkxgtukv{ "qh" Ecnkhtqpk. "ykvj" hwpfkpi"htq o "vjg" W0U0" FQV"cpf" c"pw o dgt"qh" uvcvgu. " fgrnq{gf" FUTE"wpkvu"cv"32"kpvtugevkqpu"kp"Rcnq" Cnvq. "EC"vq"vguv"cpf" gxcnvcvg" O wnvk/ O qfca"kpvgmki"gpv"Vtchhke" Uki pccn"U{ uvg o " * O OKVUU+"uqhv y ctg. " y jke j" dncpegu" rrtqtkvkgu" dgy y ggp"vtcpukv. "g o gt i gpe{ "xgjkengu. "cpf"htgki jv" vtchhke="Wvcj" FQV"cpf" Wvcj" Vtcurkv" Cwv j qtkv{ " jcxg" dgi wp" fgrnq{ o gpv"qh" FUTE"wpkvu"cnqpi" c"eqttkft"kp"vjg"Ucwn" Ncmg" Ekv{ "ctgc"twppkpi" O OKVUU"uqhv y ctg"vq" rrtqxfgf"uki pccn" rrtqtkv{ "vq"vtcpukv"dwugu. " ykvj"vjg" i qcn"qh" k o rrtqtkpi" ue j gfwng" tgnkcdknkv{ = "cpf" Rppu{ nxcpkc" FQV"cpf" Ectpg ikg" Ognq" Wpkxgtukv{ " jcxg"kpucvngf" "FUTE"cv"57" kpvtugevkqpu"kp"vjg"pgki j dtq jqqfu"qh" Rkvudwti j"vq" dtqc fecuv"Uki pccn" Rj cug"cpf" Vk o kpi" fvc"cu"vjg" hktuv"uvgr"qh" c"47/ { gct" rncp"vq"kpucvcm" FUTE"kp"uki pccn"cpf" xgjkengu"vj tqw i j qww"vjg" ctgc0" See CCUJVQ"Eq o o gpvu. "GV" Fqemg" Pq035/ 6 ; . "cv ; /38" *Lwn{ "9. "4238+0"

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550A Rtqrqpgpvu"qh"vjg"Eqo okuukqpou"rtqrqcn"eqvpgf"vjcv"52"ogicjgtv|"qh"urgetwo"ku"vjg" crrtqrtrkcvg"o qwpv"qh"urgetwo"ht"KVU"uchgv{/tgncvgf"ugtxkegu"kp"vjg"dcpf0"Qrgp"Vgejppnqi {"Kpukvwvg"cv" Pgy"Cogtkec"cpf"Rwdnke"Mpqyngfig"Qrgp"Vgejppnqi {"Kpukvwvg"cpf"Rwdnke"Mpqyngfig"vqjvgjg"ctiwg" vjcv"tgc/vk"og"X4Z"uchgv{"eqo o wpkecvkqp"tgswtgu"pq"oqtg"vjcp"52"ogicjgtv|"qh"urgetwo"6"PEVC" cuugtv"vjcv"52"ogicjgtv|"qh"urgetwo"ht"X4Z"vgejppnqikgu"ku"uwkhkekgpv"vq"eqvkwpg"vq"qhht"vjg"mkpfu"qh" uchgv{/qh/nkhg"ugtxkegu"kp"vjg"dcpf"pqy"dgkpi"rtqkxfgf."7"cnkgk"ewtgvn{"cv"o"xtg{"uocm"uecng"kp"egtckp" igqi"trjke"ctgcu0"PEVC"ctiwgu"vjcv"gzewukxg/wug"urgetwo"tki"jvu"u"jqwnf"dg"nk"okvgf"vq"uchgv{/qh/nkhg" X4Z"hwpevkqpu"vjcv"ecppq"dg"cejkxgf"vj tqw i j"qvjg"vgejppnqikgu0:8"PEVC"pqvgu"vjcv"o cp{"cwwqo qvkgxg" uchgv{"hwpevkqpu"qtki kpcn{"eqpvgo rncvgf"ht"X4Z"kp"vjg"70;" I J |"dcpf"42{"gctu"ciq"öuwej"cu"cngtvki" ftkxgtu"vq"xgjkengu"qt"qvjg"qdlgevu."ncpg/ogtikpi"cngtvu."cpf"ogti gpe{"dcmkpi"öctg"cntgcf{"dgkpi"ogv" d{"qvjg"vgejppnqikgu"nkmg"tcfct."NKFACT."ecogtcu."cpf"ugpuqtu0:9"PEVC"eqvpgfu"vjcv"qpn{"etcu/ cxqkfcpeg"kpht"ocvkqp"uwej"cu"Deuke"Uchgv{"Oguucigu"*y jkej"kpenwfgu"vjg"öeqtgö"o guucig"hwpevkqpcnk{"+ ujqwnf"dg"rtgugtxgf"ht"KVU"kp"vjg"dcpf."cpf"vjcv"X4Z"vgejppnqi {"y jvgjg"FUTE/dcugf"qt"E/X4Z/ dcugf."tgswtgu"nguu"vjcp"52"ogicjgtv|=vjwu"52"ogicjgtv|"ujqwnf"dg"uwkhkekgpv"ht"gzkukpi"eqppgevgf" xgjkeng"cr rnkcvkqpu0:"Dtqcf"eqo o."Hcegdqam."vjg"F{pc"oke"U"urgetwo" Cmnkpeg."vjg"Kpukvwvg"ht"Rqnke{"

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:2"Dtkcp"Fqtt."Kpxkukdng"Vqy/Dgjkpf<" I OE"Ncwpejgu"=Vtcpu rctgpv"Vtckngt"Xky y.0" I gct"lwpmkg"*Hgd0"34."423;+." [jwrucll igctlwpmkg0eqo li o e/vtcpu rctgpv/vtckngt/xky y0"Xcngq."Y qtnf"rtg okgtg"cv"EGU"423;"qh"Xcngq"ZvtcXwg"Vtckngt." vjg"Kpxkukdng"vtckngt"u{uvgo"*Lcp0":.423;+." \[jwrucllyy y0xcngq0eqo l gpl y qtnf/rtg okgtg/cv/egu/423:/qh/xcngq/zvtcwg/ vtckngt/vjg/kpxkukdng/vtckngt/u{uvgo l0\]\(#\)
:3"See, e.g.."DSRC Service Rules Order."3;"HEE"Teft"cv"473;/4742."Crrz0"E"nkukvki"o cp{"rvgpvkcn"FUTE/dcugf" cfxcpegf"xgjkeng"uchgv{"u{uvgo"u"ö kpenwfkpi"tqcf"fgrectwtg."ncpg"ogti g."y qtm |qpg"yctkpi."xgjkeng"uvqrrgf"qt" unqykpi."xgjkeng/vq/xgjkeng"eqmkkqp"cxqkfcpeg ö vjcv"cr rrgct"vq"dg"cxckncdng"vqfc{"wukpi"pqp/FUTE"vgejppnqikgu0"
:4"See Amendment of Parts 1, 2, 15, 90 and 95 of the Commission's Rules to Permit Radar Services in the 76-81 GHz Band."GV"fqemgv"Pq0"37/48."Tgrqv"cpf"Qtfgt."54"HEE"Teft":.44"4239+0"
:5"Rcwn"Rkengtkpi."Vjg"tcfct"vgejppnqi {"Dgjkpf"Cwwqpq"o qwu"Xgjkengu."GEP"*Fge0"9."4239+." \[jwrucllyy y0gep o ci0eqo lctvkenl4239l34l tcfct/vgejppnqi{/dgjkpf/cwwqpq o qwu/xgjkengu0"See also Eqvkwpgpvcn"CI." Eqvkwpgpvcn0"Pgzt" I gpgtcvkvq"tcfct"vgejppnqi {"Gpcdnng"Pg y"Uchgv{"Hgcwvtgu"*Cwi0"3;."423;+." \\[jwrucllyy y0eqvkwpgpvcn0eqo lgp/wul r tguu/l r tguu/tgncugulpgzv/igp/ujqtv/tcpig/tcfct/3:3676"cppqwpekpi"o"pgy"99" I J |"ujqtv/tcpig"tcfct"vjcv"qhhtu"ko r tqxgf"r gthqt"o cpeg"qxgt"o"rtkt"46" I J |"o qfgn"cpf"fguetkdkpi"tcfct"ugpuqtu"cu" öc"hwpfco gpvcn"vqnl"ht"cfxcpegf"ftkxgt"cuukvcp"u{uvgo"u"vjcv"ö gpcdnng"o qtg"cfxcpegf"hgcvwtgu"ht"vjg"xgjkeng"qh" vjg"hwwtgö+0"
:6"Qrgp"Vgejppnqi {"Kpukvwvg"cpf"Rwdnke"Mpqyngfig"Eqo o gpvu"cv"420"
:7"PEVC"TGrrn{"cv"39/49-"PEVC"Pqx0"32."4242"Ex Parte"cv"3/90"
:8"PEVC"TGrrn{"cv"3;/420"
:9"PEVC"TGrrn{"cv"3;/420"
:"PEVC"TGrrn{"cv"42/450"\\]\\(#\\)\]\(#\)](#)

kppqxcvkqp."cpf"qvjgtu"uk o knctn {"uwr rqt"vjg"Eq o o kuukqpou"rtqrqucn0: ""Uq o g"rtqrppgv"qh"rtgugtkpi"vjg"dcpf"htq" FUTE"qrgtcvkqpu"compqyngfig"vjcv"52" o gicjgtv | "ku"uwhhkegpv"vq"uwr rqt"dcuke"uchgv {" o guucikpi0:2"

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:"See, e.g.."Dtqcfq o ."Kpe0"cpf"Hcegdaqm."Kpe0"Eq o o gpvu"cv"3."F {pc o ke"Urgetw o "Cnnkcepg"Eq o o gpvu"cv"3/6." Kpvkvwg"htq"Rqnke {"kppqxcvkqp"cv"3/5." YKURC"Eq o o gpvu"cv"3="Vgej"htggfq o "Eq o o gpvu"cv"9="htgg"Uvcvg"Hqwpfcvkqp" Eq o o gpvu"cv"50"

:2"See, e.g., "Vc o rc" Jknnudqtqwi j "Gzrtguuy c {"Cwvjqtqv {"Eq o o gpvu"cv"5"*hknngf"Oct0"7."4242+"cempqyngfikpi"vjcv" ö52"O J | "ku"uwhhkegpv"vq"uwr rqt"gzkuvkpi"Jepppgevfg"xgj keng_"cr rnkcevkqpu"htq"dcuke"ftxgt"yctpkpi u0+"Ekueq" Eq o o gpvu"cv";/32"*ö]k"v"cr rgtu"vjcv"X4X"etcuj"cxqkfcpeg"ecp"dg"uwr rqtvgf."cpf"rquukdn {"qvjgt"cr rnkcevkqpuö"kp"52" o gicjgtv | +0"

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:4"7 ICC"Qev0"3."4242"Ex Parte"cv"40"

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:7"Swnceq o o "Qev0"38."4242"Ex Parte"cv"30"

:8"Dcuke"Uchgv {"Oguucig"*DUO+"hwpevkqpu"ctg"fgukipgf"vq"rtqxfgf"urggf."fktgevkp."vwtkpi"cping."rcvj"jkuvqt {"cpf" ceengtcvkqplfgeengtcvkqpl"htq o "vjg"eqppgevfg"xgj keng"vq"pgctd {"eqppgevfg"xgj kengu"vq"uwr rqt"etcuj"yctpkpi" cr rnkcevkqpu0"Gzc o rng"cr rnkcevkqpu"kpenwfg"kpvtugevkqp" o qxg o gpv"cuukuv."nghv/vwtp"cuukuv."htqyctf"eqmkuqk"yctpkpi." cpf"ncpj"ejcpi g"yctpkpi0"See, e.g., "Ngvgt"htq o "Rcwn" I0"Uejq o dwti." Fktgevq." Iqxgt o gpv ("Rwdnke"Chhcktu." Rcpcupke"Eqtrqtcvkqpl" Pqtvj" C o gtkec."vq"Octngpg" J0" Fqtvej."Ugetgvct {"HEE."GV" Fqemgv" Pq0"3;/35:." Cwcej o gpv"*öU"urgetw o "Tgs wktg o gpvu"htq"Kpvgnki gpv"Vtcurqtwcvkqp"U {uvg o u0+"cv"8"*ghgtgpeki"Ect"4"Ect"uwvf {"*hknngf"Qev0"8."4242+"*Rcpcupke"Qev0"8."4242"Ex Parte"+0"

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580A Second. "v j g" t g e q t f " f g o q p u v t c v g u " v j c v " 5 2 " o g i c j g t v | " k u " o q t g " v j c p " u w h h k e k g p v " v q " r t g u g t x g " K V U " n k e g p u g g u o " c d k n k v { " v q " g z r c p f " v j g k t " g z k v k p i " u c h g v { / t g n c v g f " u g t x k e g u " v q " o k n n k q p u " o q t g " x g j k e n g u 0 " " C u " W 0 U 0 " F Q V " c p f " q v j g t u " j c x g " t g e q i p k | g f . " v j g " d g p g h k v u " q h " X 4 Z " u g t x k e g u " k p " v j g " 7 0 ; " I J | " d c p f " t g s w k t g " c " o e t k v k e c n " o c u u " q h " e q o o w p k e c v k p i " x g j k e n g u o " k p " v j g " C o g t k e c p " h n g g v " v q " c e j k g x g " o c p { " q h " v j g " u c h g v { / t g n c v g f " d g p g h k v u 3 2 2 " " K V U " * d q v j " F U T E " c p f " E / X 4 Z + " c t g " f g u k i p g f " v q " t g w u g " u r g e v t w o " i g q i t c r j k e c m { . " u q " y g " c t g " e q p h k f g p v " v j c v " 5 2 " o g i c j g t v | " k u " u w h h k e k g p v " v q " f g r n q { " K V U / d c u g f " u g t x k e g u " c v " u e c n g 0 " " K p " q v j g t " y q t f u . " f g u r k v g " v j g " n k o k v g f " f g r n q { o g p v " q h " F U T E " v q " f c v g " h q t " v j g " v g u v k p i " q h " v c t i g y g f " u c h g v { " c r r n k e c v k q p u . " y g " g z r g e v " t g u g t x k p i " 5 2 " o g i c j g t v | " h q t " K V U " k u " u w k m " u w h h k e k g p v " v q " g p c d n g " v j g " y k f g u r t g c f " f g r n q { o g p v " q h " K V U " u g t x k e g u " v q " v j g " C o g t k e c p " c w v q o q v k x g " r w d n k e 0 "

590A Third. "y g" h k p f " v j c v " 5 2 " o g i c j g t v | " y k m " d g " u w h h k e k g p v " h q t " v j g " d c u k e " u c h g v { " c r r n k e c v k q p u " q h " v j g " p g z v / i g p g t c v k p " q h " K V U " o E / X 4 Z 0 " 7 I C C " j c u " f g n k p g c v g f " o w n v k r n g " c e e k f g p v " c x q k f c p e g " c p f " q v j g t " u c h g v { " w u g " e c u g u . " k p e n w f k p i " x g j k e n g / v q / x g j k e n g " * X 4 X + . " x g j k e n g / v q / k p h t c u v t w e w t g " * X 4 K + . " c p f " x g j k e n g / v q / r g f g u v t k e p " c r r n k e c v k q p u . " v j c v " e c p " d g " u w r r q t v g f " k p " 5 2 " o g i c j g t v | " q h " u r g e v t w o 0 3 2 3 " " Y g " c n u q " c i t g g " y k v j " S w c n e q o o " v j c v . " y k v j " v j k u " 5 2 " o g i c j g t v | " q h " u r g e v t w o " o c f g " c x c k n c d n g " h q t " E / X 4 Z / d c u g f " K V U . " c w v q o c m g t u . " v g e j p q n q i { " r t q x k f g t u . " c p f " u g t x k e g " r t q x k f g t u " y k m " d g " c d n g " v q " g h h g e v k x g n { " w u g " v j g " u r g e v t w o " h q t " x g j k e n g " u c h g v { / t g n c v g f " c r r n k e c v k q p u 0 3 2 4 " " Y k v j " v j k u " 5 2 " o g i c j g t v | . " k p e w o d g p v " n k e g p u g g u " y k m " d g " c d n g " v q " r t q x k f g " q p " c " y k f g u e c n g " d c u k u " v j g " u c o g " v { r g u " q h " K V U " u g t x k e g u " v j c v . " w r " w p v k n " v j k u " r q k p v . " j c x g " d g g p " f g x g n q r g f " c p f " f g r n q { g f " q p " c " n k o k v g f " d c u k u . " k p e n w f k p i " v j g " w u g " q h " K V U " v g e j p q n q i { " k p " o k n n k q p u " q h " e q o o g t e k c n n { " c x c k n c d n g " x g j k e n g u " * g l i 0 . " c w v q o q d k n g u . " v t w e m u + " v q " d t k p i " v j g " d g p g h k v u " q h " v j g u g " K V U " u c h g v { / t g n c v g f " u g t x k e g u " o q t g " d t q c f n { " v q " v j g " C o g t k e c p " r w d n k e 0 "

5:0A Fourth. "r t w f g p v " o c p c i g o g p v " q h " t c f k q " u r g e v t w o " f g o c p f u " v j c v " y g " v c m g " k p v q " c e e q w p v " v j g " o c v w t c v k q p " c p f " k p e t g c u k p i " r t g x c n g p e g " q h " q v j g t " v g e j p q n q i k u " h q t " v j g " r t q x k u k q p " q h " o g u a i g u " v q " r t q x k f g " e q t g " u c h g v { " k p " v j g " K V U " u { u v g o 0 " " H q t " g z c o r n g . " v j g " E q o o k u u k q p " j c u " f g f k e c v g f " u r g e v t w o " k p " v j g " 9 8 / : 3 " I J | " d c p f " h q t " x g j k e w n c t " t c f c t u . " y j k e j " k u " c e v k x g n { " w u g " v q f c { " k p " r t q x k f k p i " g p j c p e g f " u c h g v { " h g c v w t g u . 3 2 5 " c p f " y j k e j " f q g u " p q " t g n { " q p " w u g " q h " v j g " 7 0 ; " I J | " d c p f 0 " " E q o o g t e k c n " e g n m w n c t " u g t x k e g u " c p f " h t g s w g p v n { " w r f c v g f " f c v c d c u g u "

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:"Ect"4"Ect"Eq o o gpvu"cv"4."Vcdng"30"

322" PEVC"Eq o o gpvu"cv"34"*swvqkpi" W0U0" FQV+0"

323"7I CC"Eq o o gpvu"cv"8/90"

324" Swcneq o o "Qev"38."4242"Ex Parte cv"30"

325"Ujqtvtcp i g" t c f c t " u c h g v { " u g t x k e g u " k p " v j g " 9 8 / : 3 " I J | " d c p f " k p e n w f g " q d u v c e n g " c x q k f c p e g . " e q n k u k q p " y c t p k p i . " n c p g " f g r c t v w t g " y c t p k p i . " n c p g " e j c p i g " c k f u . " d n k p f " u r q v " f g v e v k p . " r c t m k p i " c k f u . " c k t d e i " c t o k p i . " c w v q p q o q w u " d t c m k p i . " c p f " r g f g u v t k e p " f g v e v k q p 0 " N q p i / t c p i g " t c f c t " u c h g v { " u g t x k e g u " k p " v j g " 9 8 / : 3 " I J | " d c p f " k p e n w f g " e q n k u k q p " c x q k f c p e g " c p f " c f c r v k x g " e t w k u g " e q p v t q n 0 " " A m e n d m e n t o f P a r t 1 , 2 , 1 5 , 9 0 a n d 9 5 o f t h e C o m m i s s i o n ' s R u l e s t o P e r m i t R a d a r S e r v i c e s i n t h e 7 6 - 8 1 G H z B a n d . " G V " F q e m g v " P q 0 3 7 / 4 8 . " T g r q t v " c p f " Q t f g t . " 5 4 " H E E " T e f " : : 4 4 . : : 4 5 / 4 6 . " r c t c l " 5 . " p 0 : " * 4 2 3 9 + * 7 6 - 8 1 G H z R & O + 0 "

ecp"rtqxfkf"ko rqtvcpv"tqcf y c{/tgnvcgf"kpht o cvkqp ô kpfggf."Yk/Hk"qrgtcvkqpu"kp"vjg"70;" I J | "dcpf"eqwnf" vcmg"vjg"nceg"qh" o cp{"qh"vjg"pq/uchgv{/tgnvcgf"cr rnkecvkqpu"qtki kpcnn{"eqpv o rncvgf"ht"KVU0"Kh"urgetw o " ku"vq"dg"rww"vq"kvu"jki j guv"cpf"dguv"wug."KVU"ugtxkegu"kp"vjg"70;" I J | "dcpf"ujqwnf"pqv"fwrnkecvg"kpht o cvkqp" vjcv"ku"cntgcf{"tgcfn{"cxckndng."pqt"ujqwnf"gzeguu"70;" I J | "dcpf"urgetw o "eqpvkpwg"vq"dg"tgugtxgf"ht" cr rnkecvkqpu"vjcv"ecp"qt"jcxg"cntgcf{"dggp"rtqxfkf"wkup"i"qvjgt"urgetw o "dcpfu"qt"cnvgtpcvkxg"vgejppnqi {0" Kpugvcf."fgfkecvgf"KVU"urgetw o " o wuv"dg"tgugtxgf"ht"uchgv{/tgnvcgf"KVU"ugtxkegu"vjcv"ecppqv"dg"tgcfn{" cejkgxgf"vj tqw i j "qvjgt" o gcpu0" Y jkng"KVU"rtqrppgpv"eqvpgf"vjcv"hwvwtg"cfxcpegf"KVU"hwpevkqpu"vjcv" o c{"dg"fgxgnqrgf" o c{"qhhgt"rqvgpvkn"gpjcpge o gpvu"vq"vgejppnqi kgu"fgxgnqrgf"cpf"ykgfn{"fg r nq {gf"kp" xgjkengu"vqfc{"wukpi"urgetw o "qwwkf"q"vjg"70;" I J | "dcpf"*tcfctu."NkFCT."gveh+."vjgtg"ctg"nkmgn{"vq"dg" qvjgt"vgejppnqi kecn"fgxgnqrgf" o gpvu."kpenwfkpi"cwvq o cvgf"ftkxkpi"ecrcdnkvgu."vjcv"ctg"dgkpi" o qtg"tcrkfn{" fg r nq {gf."cpf" o qtg"ko rqtvcpv{"cejkgxgf"vjg"mkpf"qh"etkvecn"hgvg"rgpgvtcvkqp."vq"rtqxfkf"vjg"uc o g"qt" uk o knct"xgjkewnct"uchgv{"dgpghkvu0"Cu"W0U0" FQV"cpf"qvjgtu"jcxg"cemppqngf igf."X4Z"kp"vjg"70;" I J | "dcpf" ku"pqv"ctg"swktg o gpv"ht"fg r nq { o gpv"qh"cwvq o cvgf"ftkxkpi"u{uv g o u0³²⁶

5;0Å Fifth."yg"ctg"pqv"rgtuwcf"vjcv" o qtg"vjcp"52" o g i c j g t v | "ku"pggfgf"ht"rqvgpvkn"pgy" cr rnkecvkqpu"vjcv"gzvpgf"dg{qp"vjg"v{rgu"qh"uchgv{/tgnvcgf"ugtxkegu"ewttgpn{"dgkpi"qhhtgfd{"FUTE" nkegpuggu"rwtuwcpv"vq"vjg"Eq o o kuukqpø"twngu0"Vjg"97" o g i c j g t v | "kp"vjg"70;" I J | "dcpf"jcu"dggp"wpfgtwugf" hqt" o cp {"gctu."cpf" FUTE"ugtxkeg"jcu"pqv"dgpp"ykgfn{"fg r nq {gf0"Rqvgpvkn"hwvwtg"cfxcpegf"cr rnkecvkqpu." j q y g x g t . " c t g " u v k n " w p f g t " f g x g n q r o g p v " c p f " j c x g " p q " d g g p " f g r n q { g f " c p f " y k f g e c n g " e q o o g t e k n " f g r n q { o g p v " y q w n f " c v " d g u v " u v k n " d g " { g c t u " c y c { " * k h " k v " q e e w t t g " c v " c n n + 0 "

620Å Sixth."vjg"Eq o o kuukqp"jcu"wugf" c"xctkv{"qh"vgejpkswgu"vq"cejkgxg"i tgcvtg"urgetw o " ghkkgpe {"kp"qvjgt" dcpfu0" Hqt"gzc o r n g . " y g " j c x g " t g f w e g f " v j g " c o q w p v " q h " u r g e t w o " d g k p i " w u g f " * u w e j " c u " d { " t g s w k t p i " o q t g " u r g e t w o " g h h k e g p v " v g e j p p n q i k g u + " q t " k p e t g c u g f " v j g " p w o d g t " q h " r q u u k d n g " w u g t u " v j t q w i j " c f x c p e g f " u j c t k p i " v g e j p k s w g u 0 " J g t g . " y g " h k p f " v j g " o q t g " c r r t q r t k c v g " c e v k p " k u " v q " f k x k f g " v j g " d c p f " k p v q " v y q " u g r c t c v g " u r g e t w o " u g i o g p v u 0 " V j k u " k u " v j g " s w k e m g u v . " o q u " g h h k e g p v " y c { " v q " t g c n k | g " q w t " i q c n u . " t c v j g t " v j c p " u w d l g e v k p i " v j g " d c p f " v q " c f f k v k q p c n " v g u v k p i " v q " f g v g t o k p g " c r r t q r t k c v g " u j c t k p i " v g e j p k s w g u 0 "

630Å Seventh."rtgugtxkpi"52" o g i c j g t v | "ht"KVU"wug"kp"vjg"70;" I J | "y knn"eq o rqtv"ykvj"vjg"wug" o cp {"qvjgt"eqwvptkgu"jcxg"fguki"pcvgf"ht"vjku"dcpf"cpf"cmnqy"i nqdcn"jct o qpk|cvkqp0" Y g'uvctv"d{"pqvki" vjcv" o cp {"eqwvptkgu"ctg"rtqxfkpi"ht"KVU"wug"kp"vjg"70;" I J | "dcpf."ykvj"xctkcegu"kp"vjg"wr rgt"cpf"nqygt" e j c p p g n " d q w p f u . " c x c k n d n g " d c p f " y k f v j . " v g e j p p n q i { " c p f " p c v w t g " q h " u g t x k e g u " d g k p i " f g x g n q r g f 0 " P q v e d n { . " k v " c r r g c t u " v j c v " p q " q v j g t " e q w p v t k g u " j c x g " t g u g t x g f " 9 7 " o g i c j g t v | " h t " u c h g v { / q h / n k h g " K V U " w u g u 0 ³²⁷ " H q t " g z c o r n g . " Q r g p " V g e j p p n q i { " k p u v k v w g " c p f " R w d n k e " M p q y n g f i g " f g u e t k d g " L c r c p ø " w u g " q h " c " u k p i n g " 3 2 / o g i c j g t v | " e j c p p g n " v q " r t q x k f g " X 4 Z " u c h g v { / t g n c v g f " d g p g h k v u 0 ³²⁸ " C p f " E j k p c " j c u " q p n { " c m n q e c v g f " 4 2 " o g i c j g t v | " h t " u w e j " K V U " w u g 0 ³²⁹ " C n v j q w i j " u q o g " e q w p v t k g u " j c x g " c m n q e c v g f " o q t g " v q " K V U . ³² " y g " h k p f " v j c v . " d c u g f " q p " v j g " y q t n f " y k f g " g z r g t k p e g . " g c e j " l w t k u f k e v k p " c r r g c t u " v q " j c x g " o c f g " c p " k p f k x k f w c n " r q n k e { " e j q k e g " v j c v " k v " j c u " h q w p f " v q " d g " o q u " c r r t q r t k c v g " h t " k v " r c t v k e w n c t " e k t e w o u v c p e u 0 " V q " v j g " g z v g p v " v j c v " v j g t g " k u " c " d t q c f " c m n q e c v k p " q h " u r g e t w o " k p " v j g " 7 0 ; " I J | " d c p f " v q " u w r r q t v " K V U " v g e j p p n q i k g u " * g x g p " k h " v j g t g " k u " p q " q x g t c n n " e q p u g p u w u " q p " y j k e j "

³²⁶W0U0" FQV" Tgrn {"cv"4-"CCU J VQ"Eq o o gpvu"cv"3;"*v{"rkecn"öcwvppq o qwu0" xgjkengu"fq"pqv"tgswktg"cp" xgjkeng/vq/ xgjkeng"eq o o wpkecvkqpu."cpf"ewttgpn"cwvppq o qwu" xgjkeng"vgvki"i"fqgu"pqv"vug"ftkge"X4X"eq o o wpkecvkqp"dgvggpp" cpf" c o q p i " x g j k e n g u " q r g t c v k p i " q p " v j g " r w d n k e " t q c f + 0 "

³²⁷PEVC" Tgrn {"cv"49/540"

³²⁸Qrgp"Vgejppnqi {"Kpukvwwg"cpf"Rwdnke"Mpqyngfig"Eq o o gpvu"cv"420" See also Oqvqt ("Gswkr o gpv"Ocpwhcewvtgtu" Cuuqekcvkqp" Tgrn {"cv"9"*uvcvki"vjcv."qww"qh":2" o g i c j g t v | . " 3 2 " o g i c j g t v | " k u " ö f g f k e c v g f " g z e n w u k x g n { " h t " v t c p u r t v c v k p " u c h g v { " e q o o w p k e c v k p u 0 + 0 "

³²⁹See T"Uvtggy"Kpukvwwg"Eq o o gpvu"cv"80"

³²"KVU"cmnqecvki"*pqv"nk o kvgf"vq"uchgv{/qh/nkhg+"kp"vjku"ec o r" kpenwfg" Gwtqrg"*72" o g i c j g t v | . " 7 0 : 9 7 6 7 0 ; 4 7 " I J | + = " U k p i c r q t g " * 7 2 " o g i c j g t v | . " 7 0 : 9 7 6 7 0 ; 4 7 " I J | + = " C w u v t e n k e " * 9 2 " o g i c j g t v | . " 7 0 : 7 7 6 7 0 ; 4 7 " I J | + = " c p f " M q t g c " * 9 2 " o g i c j g t v | . " 7 0 : 7 7 6 7 0 ; 4 7 " I J | + 0 " See T"Uvtggy"Kpukvwwg"Eq o o gpvu"cv"8- Cwvqvcnmu"Eq o o gpvu"cv"8/90"

vgejppnqi { "qt"cr rnekcvkqpu" y knn"wnvk o cvgn { "dg" fgrnq { gf"kp"urgekhe" rqtvkqp*u+"qh"vjg"dcpf+.32;"vjgtg"ctg" rqvpgvkn"jct o qpk | cvkqp"dgpgkhvu"kp"tgvckpki"uq o g"fgfkecvf"urgetw o "hqt"KVU"kp"vjku"htgswgpe { "tcpig o gurgekcn { "kp"vjg"wr rgt"42" o gicjgtv | . " y jkej" T"Uvtggv"kf gpvkhkku"cu"ovjg"qpn { "urgetw o "kp"eq o o qp" wug" cetquu"cm"eqwptkglu0332m"Qwt" rncp"vq"kpvtqfweg" E/X4Z"kp"vjg"dcpf. "kp"eqplwpevkqp" y kvj"qvjgt" cf o kpkuvtcvkqpu0"uwr rqt" hqt"uwej" wug" y kvj"kp"vjg"70;" I J | "dcpf. "ujqwnf" hceknkvcvg"geppq o kgu"qh"uecng"kp"vjg" rtfwevkqp"cpf" fgrnq { o gpv"qh"gs wkr o gpv"cpf. "wnvk o cvgn { . "rtqxlkqp"qh"vjg"eqtg"uchgv { "hwpevkqpu"qtki kpcnm { "eqpv g o rncv g f" hqt"vjg"dcpf0

640A Y g"fkucitgg" y kvj "KVU"rtqrppgvu" y j q"kpukuv"vjcv"vjg"gpvktg"dcpf"dg"rtgugtxgf" hqt"hwvwtg" KVU"fgxgnqr o gpvu"vjcv"eqwnf" o cmg" wug"qh"vjg"gpvktg"97" o gicjgtv | "kp"vjg"70;" I J | "dcpf0" Cnvj qwi j "kv"ku" rquukdng"vjcv"KVU" oki j v"wnvk o cvgn { " o cmg" wug"qh"vjg"gpvktg"97" o gicjgtv | "kh"kv"eqpvkpwgf"vq"dg"ugv"cu kfg" hqt" KVU. "uwej" c" fgekukqp" y qwnf"pqv"qrk o k | g" wug"qh"vjku"xcnwcdng"urgetw o o c p f"vjg"etgfdkknv { "qh"uwej" ctiw o gpvu"ku"ncemkpi" ikxgp"vjcv"vjgug"uc o g"ctiw o gpvu"jcxg"dgpp"cfxcpegf" d { "KVU"rtqrppgvu" hqt" { gctu" cpf" { gctu" y kvj"pq"fkuegtpkdng"ejcpi g"kp"vjg" o ctmgvrnceg0" Y g"ci tgg" y kvj"7 I C C"cpf" Sweneq o o "vjcv"52" o gicjgtv | "ku"uw hkekgpv" hqt"rtqxfkpi"dcuke"uchgv { "cpf"tgncv g f"ugtxkegu. "eqpukuv gpv" y kvj"vjqug"qtki kpcnm { " eqpv g o rncv g f" y jgp"vjg"Eq o o kuukqp"cwv j qtk | g f" FUTE/dcugf"KVU"ugtxkeg"kp"vjg"70;" I J | "dcpf. "cpf" uw hkekgpv"vq"rtqxfkfg"pg y"ugtxkegu"ujqwnf"qr gtcvqtu" wug"urgetw o "ghhkekgpv n { 0" Y g" hkp f"vjcv"vjg"rwdnke" kpvgtguv"ku"dguv"ugtxgf" d { "fkxkfkpi"vjg"70;" I J | "dcpf"vq"cf f tguu"vjg"pgg fu"qh"dqv j"KVU"cpf"wpnkegpugf" wugtu0

650A Y g"fkucitgg" y kvj "vjg"rqukvkqp"qh"Ect"4"Ect"cpf"qvjgt"eq o o gpvgtu"vjcv"cti w g"vjcv" o qtg" vjcp"52" o gicjgtv | "ujqwnf" dg"tgugtxgf"vq"ceeq o o qfcvg"hwvwtg"cfxcpegf"KVU"uchgv { /tgncv g f"ugtxkegu"vjcv" ctg"wpfgt"fgxgnqr o gpv0333m"Ect"4"Ect". "tghgtgpekpi"kvu"q y p"urgetw o "uuvf { . "cempq y ngf i gu"vjcv"52" o gicjgtv | "ku" o qtg"vjcp"uw hkekgpv"vq"uwr rqt"vjg"kpvkcn"r j cugu"qh"KVU"vjcv"ctg"tgncv g f"vq"oc y ctgpguu" ftkxkpi. o" kpenwfkpi"ugxgtcn" xg j keng/vq/xg j keng"cr rnekcvkqpu" *kpenwfkpi" Dcuke"Uchgv { "Oguuc i g"cpf"Rgtuqpcn" Uchgv { "Oguuc i g"cpf" xg j keng/vq/kphtcuvtwewwtg"cr rnekcvkqpu0334m" Dww"Ect"4"Ect" i qgu"qp"vq"enck o "vjcv" nk o kvkpi"vjg"urgetw o "vq"vjku"c o qwpv" o c { "rtqxfkfg"kp uwhkekgpv"uwr rqt" hqt" rncvqqkpi"335"qt" r tqvgevkqp"qh" wpeqppgevgf"oxwnpgtcdng"tqcf" wugtu0* g0i 0. "r g f g u v t k c p u. "dke { enkuvu. "cpf"tqcf" y qtmgtu" y j q"ecppq" ugp f l t g e k x g " R g t u q p c n " U c h g v { " O g u u c i g u " v q l h t q o " e q p p g e v g f " x g j k e n g u + . 336" c p f " y q w n f " p q " u w r r q t v " n c v t " r j c u g u " qh"KVU"ewtgpvn { "wpfgt"uuvf { "cuuqekcvg" y kvj "ougupki" ftkxkpi o"cpf"oeqqr gtcvkg" c y c t g p g u u " f t k x k p i o

32: "Vjg"Kpygtpcvkqpcn"Vgngeq o o wpkecvkqp"Wpkqp" Tcfkqeq o o wpkecvkqp"Ugevt*"KVW/T+"tgeq o o gpfu"fgukipcvkpi"vjg" 70;" I J | "dcpf" hqt"KVU0" See Ect"4"Ect"Eq o o gpvu"cv"60"

332" See e.g. "T"Uvtggv"Kpuvkvwg"Eq o o gpvu"cv"90"

333" See"Ect"4"Ect"Eq o o gpvu"cv"3/ : . : 3 : / 3 ; 0 See also Rcpucqpkie"Qev0"8. "4242"Ex Parte. "Cwcej o gpv" *oU r g e t w o " T g s w k t g o g p v u " h q t " k p v g m k i g p v " V t c p u r q t v c v k p u { u v g o u o + " c v " 4 / 6 * t g h g t g p e k p i " E c t " 4 " E c t " u w f { + " X q m m u y c i g p " E q o o g p v u " c v ; " * 5 2 " o g i c j g t v | " k u " p g g f g f " h q t " x g j k e n g / v q / x g j k e n g " c p f " x g j k e n g / v q / k p h t c u v t w e w w t g " u c h g v { " c r r n e k c v k q p u " v q f c { + 0

334" See"Ect"4"Ect"Eq o o gpvu"cv"3/ : . : 3 : / 3 ; 0"

335" Rncvqqkpi"hwpevkqpu"tgncv g "vq" c"v { r g"qh"eqqr gtcvkg"cwv g o cvg f" ftkxkpi" hqt"eqppgevgf" xg j keng u. " i g p g t c m { " v t w e m u. " v j c v " v t x g n " v q i g v j g t " k p " c " e q q t f k p c v g f " o c p p g t 0 " S e e " E q p v k p g p v c n " T g r n { " c v " 3 8 0

336" Xwnpgtcdng"tqcf" wugtu"XTWu+"kpenwfg" r g f g u v t k c p u. "dke { enkuvu. " o q v q t e { enkuvu. "ueqvygt" wugtu. "cpf"tqcf" y qtmgtu0" See" KGGG"382; " Y q t m k p i " I t q w r " E q o o g p v u " c v " 8 - " S w e n e q o o " E q o o g p v u " c v " 5 0

*kpenwfkpi "Eqnngvkvxg"Rgtegrvkqp"Oguucigu³³⁷"cpf"Ocpgwxtg"Eqqtfkpcvkqp"Oguucigu³³⁸+. "y jkej"eqwnf" tgswktg" o qtg"urgetvw o "cpf"eqwnf" jgnr"gpdcng"hwvwtg"cwvppq o qwu"ftkxkpi"ugtxkegu³³⁹

660A Yg"fkucitgg"ykvj"Ect"4"Ectøu"rtg o kug"vjcv"92" o gicjgtv|"qh"urgetvw o "oc{"dg"pggfgf"vq" ceeq o o qfcvg"cmn"qh"vjg"xctkqwu" o guucig"v{rgu"*g0i0."wtdep."uwdwtdep."cpf"jki j y c{"wug"ecugu+."kpenwfkpi" rquukdng"hwvwtg"cr rnkcevkkpu³³³:"Eqpvkpgpvcn"Cwvq o qvkvxg"U{uvg o u"*Eqpvkpgpvcn+."vjg"KGGG"382;" Y qtmkpi" I tqwr."cpf"qvjgtu"uk o knctn{"eqpvpgf"vjcv"52" o gicjgtv|"y qwnf"pqv"dg"uwvhkckgpv"htq"r qvpgvkc"hwvwtg."dwi"pqv" {gv"fgxgnqrgf"qt"fgrnq{gf."c fxcpegf"ugtxkegu"*kpenwfkpi"eqqrgtcvkvxg"cyctgpguu"ftkxkpi." o cpgwxtg" eqqt fkpvcvkqp."cpf" rncvqppki+³³³;"71 CC"ci tggv"vjcv"52" o gicjgtv|"y qwnf"pqv"dg"uwvhkckgpv"htq"öc fxcpegfö" cr rnkcevkkpu"vjcv"ctg"ewttgpn{"wpfgt"fgxgnqrgp."y jkej"y qwnf"pggf"cp"cf fkvkqpcn"62" o gicjgtv|"qh" urgetvw o .³⁴²"cpf"vjg"Cmncpeg"htq"Cwvq o qvkvxg"Kppqxcvkqp"cuugtvu"vjcv"rtqxfkpi"qpn{ "52" o gicjgtv|"htq" xgjkeng/vq/gxgt{vjkpi"*X4Z+"cr rnkcevkkpu"y qwnf"wpfgtew"vjg"vgejpnq{ {øu"rquukdng"dgpgkhv" d{" gnk o kpcvkpi"urgetvw o "pggfgf"htq"cpvkekr cvgf"vgejpnq{ kecn"Kppqxcvkqp³⁴³"W0U0" FQV"eqpvpgf"vjcv"cmn"97" o gicjgtv|"u j qwnf"dg"rtugtxgf"htq"KVU³⁴⁴"cti wkpi"vjcv"nk o kvkpi"KVU"vq"52" o gicjgtv|"y qwnf"tgfweg"vjg" wknkv{"qh"X4Z"cpf"vjcv"uchgv{"kppqxcvkqp"wpfgt"fgxgnqrgp."kpenwfkpi"eqqrgtcvkvxg"cwvq o cvgf"ftkxkpi" u{uvg o u." o c{"dg"nquv³⁴⁵"W0U0" FQV"cpf"qvjgtu"cuug"eqpvpgf"vjcv"vjg"70;" I J|"dcpf"ku"kf gcmn{"uwkvgf"htq" X4Z"dgecwug"qh"vjg"dcpföu"ppq/nkpg/qh/uki j v"eq o o wpkecvkqp"ecrcdknkvgu."cuugtvkpi"htq"kpucvpeg"vjcv"vjku" ecp"rtq o qvg"cfxcpegf"ftkxgt"cuukwcpvg"u{uvg o u"d{"gpdcnkpi"ugpuqt"fcvc"vjcv"ku"dgkpi"rtqxfgf" d{"qp/

³³⁷"Eqnngvkvxg"Rgtegrvkqp"Oguucig"*ERO+"hwpevkpu."y jkej"ctg"wpfgt"fgxgnqrgp"cv"vjku"vk o g."ctg"cpvkekr cvgf"vq" kpxqnxg"u o cti"tqcfukfg"kphtcuvtwewwtg"cpf"eqppgevgf"xgjkengu"fgvgevkpi"cpf"rtqxfkpi"kphtq o cvkpv"vq"qvjgt"eqppgevgf" xgjkengu"cdqwu"cmn"vtchhke"rctvkekr cpvu"kp"vjg"xkckpv{"kpenwfkpi"ppq/eqppgevgf"xwnpctcdng"tqcf"wgutu"cpf"xgjkengu" Gzc o rng"cr rnkcevkkpu"kpenwfg"ceekfgp"cxqkf cpeg"y kvj" xwnpctcdng"tqcf"wgutu."qxgtvcmkpi"y ctpkpi"u"y kvj"eqnngvkvxg" rgtegrvkqp."gzvpgf"kpvtugevkqp"eqnkukqp"y ctpkpi"y kvj"eqnngvkvxg"rgtegrvkqp."eqqrgtcvkvxg"cyctgpguu"qh"qdlgevu"qp" vjg"uvtggv."cpf"y tqpi"y c{"xgjkeng"y ctpkpi"u"kp"ecugu"qh"ppq/X4Z"gswkr rgf"y tqpi"y c{"xgjkengu"Eqpvkpgpvcn" Tgrn{ "cv"380"

³³⁸"Ocpgwxtg"Eqqtfkpcvkqp"Oguucig"*OEO+"hwpevkpu."y jkej"ctg"wpfgt"fgxgnqrgp."ctg"cpvkekr cvgf"vq"hcclnkcvvg" pgi qvkvkqp"dg v y ggp"eqppgevgf"xgjkengu"htq"ppq/rtqxfkpi"jki j y c{"ukvckvku" Gzc o rng"cr rnkcevkkpu" o c{"kpenwfg" eqqrgtcvkvxg"ncpg"ejcpi g"qrgkpi"i cru"htq"xgjkengu"vq"uchgn{"ejcpi g"ncpgu="eqqrgtcvkvxg"qxgtvcmkpi"*qrgkpi"i cru"htq" xgjkengu"vq"uchgn{"qxgtvcmg+." o cpgwxtg"eqqtfkpcvkqp"htq"cwvq o cvgf"ftkxkpi"*gzejcpi g"qh"kpvgpfgf"ftkxkpi"rcvju=" eqqrgtcvkvxg" o gti kpi="k o rtqxfgf"eqqrgtcvkvxg"ftkxkpi"cr rnkcevkkpu"*g0i0."k o rtqxfgf"kpvtugevkqp" o qxg o gpi"cuukw"cpf" k o rtqxfgf"ngv"wtv"cuukw"Idl"

³³⁹"See"Ect"4"Ect"Eq o gpvu"cv"3/:."3/:/3;0"

³³"Ect"4"Ect"Eq o gpvu"cv"40""Ect"4"Ect"rtqxfkfgu"cejctv"vjcv"rwrtrqtvu"vq"ujqy"vjg"urgetvw o "tgswktg o gpvu."kp" o gicjgtv|"htq"ukz" o guucig"v{rgu"*duke"uchgv{" o guucig."kphtcuvtwewwtg"vq"xgjkeng."rgtuqpcn"uchgv{" o guucig."eqnngvkvxg" rgtegrvkqp" o guucig."rncvqppki"eqvtqn" o guucig"cpf" o cpgwxtg"eqqtfkpcvkqp" o guucig+"htq"wtdep."uwdwtdep"cpf" jki j y c{"ftkxkpi" wug"ecugu"

³³"Eqpvkpgpvcn" Tgrn{"cv"37/39="Ngvgt"htq o "Cncp" I 0"Hku jgn."Lghgt{"G0"Tw o o gn."Eqwpugn"htq"Eqpvkpgpvcn"Cwvq o qvkvxg" U{uvg o u."vq"Octngpg"J0" Fqtvej."Ugetgvct{"HEE."GV" Fqemvg" Pq0"3;/35:."cv"cwcejgf"unkfg"rtgugpvcvkqp"*hknfg"Lwpg";." 4242+"Eqpvkpgpvcn" Lwpg";."4242"Ex Parte="Ngvgt"htq o "Cncp" I 0"Hku jgn."Eqwpugn"htq"Eqpvkpgpvcn"Cwvq o qvkvxg" U{uvg o u."vq"Octngpg"J0" Fqtvej."Ugetgvct{"HEE."GV" Fqemvg" Pq0"3;/35:."cv"3/4"*hknfg"Qev0"9."4242+"Ngvgt"htq o " Cncp" I 0"Hku jgn."Eqwpugn"htq"Eqpvkpgpvcn"Cwvq o qvkvxg"U{uvg o u."vq"Octngpg"J0" Fqtvej."Ugetgvct{"HEE."GV" Fqemvg" Pq0"3;/35:."cv"3/5"*hknfg"Qev0"44."4242+"Eqpvkpgpvcn"Eq o gpvu"cv"6/9="KGGG"382;" Y qtmkpi" I tqwr"Eq o gpvu"cv"7/ 32"97" o gicjgtv|"ku"pggfgf"htq"vjg"y kfg"tcpig"qh"uchgv{/tgnvcgf"KVU"cr rnkcevkkpu."kpenwfkpi"Deuke"Uchgv{"Oguucig." xwnpctcdng"tqcf"wgutu."cpf"eqppgevgf"cpf"cwvq o cvgf"xgjkengu"vjcv"ctg"wpfgt"fgxgnqrgp."ekvki"Ect"4"Ect"urgetvw o " uwf{ += "W0U0"Vgejpkcn"Cfxkuqt{" I tqwr"Eq o gpvu"cv"7/32"uc o g+0"

³⁴²"71 CC"Eq o gpvu"cv"44/53"52" o gicjgtv|"y qwnf"uwr rqtv"öE/X4Z" Fktgevo"qrgtcvkvkpu"dwv"pqv"öc fxcpegfö"E/ X4Z+=see also Rcpucqpk"Qev0"8."4242"Ex Parte."Cwcej o gpvu"öUrgewt o "Tgswktg o gpvu"htq"Kpvgmki gpi" Vtcurqtvcvkqp"U{uvg o uö+"cv"4/6"*tghgtgpekp"71 CC"cpn{uku+0"

³⁴³"Cmncpeg"htq"Cwvq o qvkvxg"Kppqxcvkqp" Tgrn{"cv"44/460"

³⁴⁴"See generally W0U0" FQV" Tgrn{0"

³⁴⁵"W0U0" FQV" Tgrn{"cv"3/5="see also id. cv"36/3;0"

dqctf"ugpuqtu"kp"kp"fkxfwcn"Xgjkengu"wukpi"qvjgt"urgetw o "cpf"vgej pgnq i kgu" *g0i0."tc fct."NkFCT."ec o gtcu+"
vq"dg"ujctgf"eqqrgetcvkxgn{ " *cv"nq y "ncv gpe { + "vq" k o r t q x g " x g j k e w n c t " u c h g v { " c o q p i " o q t g " w u g t u 0 3 4 6 " U q o g " K V U "
r t r q r p g p v u " e q p v g p f " v j c v " n k o k v k p i " v j g " c o q w p v " q h " c x c k n c d n g " u r g e v t w o " v q " 5 2 " o g i c j g t v | " o c { " g n k o k p e v g " q t "
u k i p k h k e c p v n { " f g n c { " f g x g n q r o g p v " c p f " f g r n q { o g p v " q h " e g t v c k p " K V U " e c r c d k n k v k g u 0 3 4 7 " K p " c f f k v k q p . " v j g "
E q o o k u u k q p " t g e g x g f " e q o o g p v u " h t q o " q v j g t " k p v g t g u v g f " r c t v k g u . " k p e n w f k p i " c w v q o c m g t u " c p f " t g n c v g f "
g p v k v k g u . 3 4 8 " v t c p u r q t v c v k q p / t g n c v g f " c u u q e k c v k q p u " c p f " u v c v g " f g r c t v o g p v u " q h " v t c p u r q t v c v k q p . 3 4 9 " r w d n k e " u c h g v { "
g p v k v k g u . 3 4 : " c p f " q v j g t u 3 4 ; " c f x q e c v k p i " h q t " t g v g p v k q p " q h " v j g " g p v k t g " 7 0 ; " I J | " d c p f " h q t " K V U " v q " g p u w t g " v j c v " v j g t g " k u "
u w h h k e k g p v " u r g e v t w o " h q t " d q v j " e w t t g p v " c p f " h w w t g " u c h g v { / t g n c v g f " c r n k e c v k q p u 0 "

670A PEVC." YKURC."cpf"qvjgtu"fkurwvg"vjcv"cp{"cf"fkvkqpcn"urgetw o "ujqwnf"dg"ocfg"
cxckncdng"htq"vjgug"rqvgpvcn."hwwtg"KVU"crnrkecvkqpu0"PEVC"pqvgu"vjcv"Ect"4"Ectou"qyp"uvvf{"kpfkcevgu"
vjcv"52"ogicjgtv|"ku"uwkhkekgpv"htq"Dcuke"Uchgv{"Oguucigu"*yjkej"tgswktg"pq"oqtg"vjcp"32"ogicjgtv|+"
cpf"xctkqwu"Xgjkeng/vq/kphtcuvtewvwtg"*X4K+"crnrkecvkqpu."kpenwfkpi"ukipcn"rjcug"cpf"vko"kp."tqcf"lncpg"
vqrnqif{"opgwxtg."kp/xgjkeng"kphtocvkqp"cpf"qvjgt"ukonct"oguuicigu."cu"ygm"cu"vjg"Rgtuqpcn"Uchgv{"
Oguucig"*yjkej"tgswktg"qpn{"42"ogicjgtv|+}352"PEVC"hwvjgt"pqvgu"vjcv"Xgxp"chvg"42"{}gctu"vjgtg"ctg"
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ugtxkgeu0353"PEVC"eqpvgp"fu"vjcv"vjg"Eqoookuukqp"ujqwnf"pqv"eqpukfgt"vjg"rqvgpvcn"urgetw o "pggf"u"qh"
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fgxgnqr o g p v u 0 " v j c v " o c { " q t " o c { " p q v " f g x g n q r 0 3 5 4 " P E V C " u v c v g u " v j c v " v j k u " y q w n f " k p x k v g " t g r g c v " q h " v j g " u c o g "
gttqt"ocfg"kp"3;;;"yjkej"tguwvvgf"kp"wpfwtwug"qh"xcnwcdng"okf/dcpf"yjkg"cyckvkpi"tgugetej"cpf"
fgxgnqr o g p v 0 3 5 5 " Y K U R C " e q p v g p f u " v j c v " e q o o g p v g t u " u g g m k p i " v q " e q p v k p w g " v q " t g u g t x g " v j g " g z k v k p i " K V U "
urgetw o " t g u g t x c v k q p " y k v j q w " o q f k h k e c v k q p . " h c k n " v q " o c m g " v j g " e c u g " v j c v " v j g " g p v k t g " d c p f " o w u " d g " y k v j j g n f "
htq o " q v j g t " w u g u 0 " K v " h w t v j g t " c t i w g u " v j c v " v q " e q p v k p w g " v q " y c k v " h q t " d g p g h k v u " v j c v " j c x g " r t q x g p " g n w k x g " h q t " o q t g "

346" See, e.g., "W0U0" FQV" Tgrn { "cv"38."4;/54-"KGGG"382;" Y qtmkpi " I tqwr"Eqo o g p v u "cv" :-"Rcpcaqpk"Eqo o g p v u "cv"360"

347" See, e.g., "Ect"4"Ect"Eqo o g p v u "cv"6="Eqpvkpgpvcn"Lwpg";. "4242" Ex Parte cv"3."60"

348" See, e.g., "I O"Eqo o g p v u "cv" : / ; " * r q v g p v k n " u c h g v { " d g p g h k v u " t g n c v g f " v q " r t q v g e v k p i " x w n p g t c d n g " t q c f " w u g t u . " e q q r g t c v k x g "
ftlxkpi."rncvqqkpi."cpf"cfxcpegf"ftlxkpi"ykvj"ugpuqtu"yknn"dg"nquv"qt"nkokvgf+"Jppfc"Eqo o g p v u "cv"32="Lciwct"Ncpf"
Tqxt"Eqo o g p v u "cv"5="Pkuucp"Eqo o g p v u "cv"3="Xqmmuycigp"Eqo o g p v u "cv"6/7="Xqnxq"Eqo o g p v u "cv"4="DO Y"
Eqo o g p v u "cv"5="Hkcv/Ejt{ungt"Eqo o g p v u "cv"5="Hqt" Tgrn { "cv"8/9="Vq{qvc" Tgrn { "cv"7/ ; ="Cwwqvcnmu"Eqo o g p v u "cv"4=" "
Gwtqrgep"Cwwq o q d k n g " O c p w h c e w t g t u " C u u q e k c v k q p " E q o o g p v u " c v " 3 / 4 = " D q u e j " E q o o g p v u " c v " 6 0 "

349" See, e.g., "KVU" C o g t k e c " E q o o g p v u " c v " 5 = " C o g t k e c p " V t w e m k p i " C u u q e k c v k q p " E q o o g p v u " c v " 4 = " C o g t k e c p " J k i j y c { "
Wugtu" Cmkpeg"Eqo o g p v u "cv"5="C o g t k e c p " R w d n k e " V t c p u r q t v c v k q p " C u u q e k c v k q p " E q o o g p v u " c v " 4 = " C w v q o q v k x g " U c h g v { "
Eqwpekn"Eqo o g p v u "cv"3/4="CCUJ VQ"Eqo o g p v u "cv"5="Ecnkhtqtpk" FQV"Eqo o g p v u "cv"5="Ekv{"qh" Pgy" [qtm"Eqo o g p v u "
cv"7/8="Eqqtcfcq" FQV"Eqo o g p v u "cv"3/4=" I g q t i k c " F Q V " E q o o g p v u " c v " 3 7 = " O k e j k i c p " F Q V " E q o o g p v u " c v " 3 5 = "
Rgppu { n x e p l c " F Q V " E q o o g p v u " c v " 3 = " V g z c u " F Q V " E q o o g p v u " c v " 4 / 6 0 "

34: " See, e.g., "Pcvkqpcn"Rwdnke"Uchgv{"Vngneq o o w p k e c v k q p u "Eqwpekn"Eqo o g p v u "cv"3="Pcvkqpcn"Ujgkhhou"Cuuekcvkqp"
Eqo o g p v u "cv"30"

34: " See, e.g., "Eqpuw o g t " T g r q t v u " E q o o g p v u " c v " 3 = " N I " G n g e v t q p k e u " E q o o g p v u " c v " 3 = " S w c n e q o o " E q o o g p v u " c v " ; / 3 8 = "
Dquej"Eqo o g p v u "cv"7="PZR"Ug o keqpfwevqtu"Eqo o g p v u "cv"3="CV (V"Eqo o g p v u "cv"3="V/Oqdkng"Eqo o g p v u "cv"3=" "
Ngc i w g " q h " C o g t k e c p " D k e { e n k u v u " E q o o g p v u 0 "

352" PEVC" Tgrn { "cv"46" *ekvkpi " Ect"4"Ect"Rqukvkqp"Rcrgrt"pq" Tqcf"Uchgv{"cpf" Tqcf" Ghhkekge {"Urgetw o " Pggfu"kp"vjg" "
70; " I J | " h q t " E / K V U " c p f " E q q r g t c v k x g " C w v q o c v g f " F t l x k p i " * H g d 0 " 4 : 0 " 4 2 4 2 + 0 "

353" PEVC" Tgrn { "cv"480" Y g " p q v g " v j c v " I O 0 u " E c f k n n c e " d t e p f " k p e n w f g f " a p g " o q f g n " * E V U " u g f c p + " v j c v " k p u v c n n g f " F U T E " a p / "
dqctf"wpkvu"htq o "4239"vj tqwi j " o k f / 4 2 3 ; " y j g p " u e w j " k p u v c n n c v k q p u " y g t g " f k u e q p v k p w g f 0 " See "
j w r u k l l y y 0 h j x g t i g 0 e q o l 4 2 3 9 l 5 l ; 1 3 6 : 8 ; 3 3 2 l e c f k n n c e / e v u / u g f c p / x 4 x / e q o o w p k e c v k q p / f u t e / i o = "
j w r c l l e c f k n n c e u e q e v { l e q o l 4 2 3 : 1 3 4 l 2 6 l e c f k n n c e / e v 8 / v q / d g / f k u e q p v k p w g f / k p / o k f / "
4 2 3 : 1 % < e < v z v ? E c f k n n c e ' 4 2 E V 8 ' 4 2 V q ' 4 2 D g ' 4 2 F k u e q p v k p w g f ' 4 2 k p ' 4 2 O k f / "
4 2 3 : 0 ' 4 2 k v ' G 4 ' : 2 ' : ; . u . v j g ' 4 2 E V 8 ' 4 2 d g k p i ' 4 2 c ' 4 2 e c u v c n v { ' 4 2 q h ' 4 2 v j g ' 4 2 o q x g 0 "

354" PEVC" Tgrn { "cv"46/490"

355" PEVC" Tgrn { "cv"48/490"

vjcp"v y q" fgecf gu. 356" ctg" dcugf" qp" urgewncvkqp" cdqvw" ohwvwtg" r qv g p v k c n o" q t" v j g" o r q v g p v k c n" g x q n w v k q p o" K V U" c r r n k e c v k q p u" p g g f u" c p f" c" f g u k t g" v q" o h w v w t g" r t q q h o" r q u u k d n g" h w v w t g" w u g u o 357" k p" c f f k v k q p. " Q r g p" V g e j p q n q i { " k p u v k v w g" c p f" R w d n k e" M p q y n g f i g" c t i w g" v j c v n g c x k p i" v j g" g p v k t g" 70; " I J |" c m n q e c v g f" h q t" c w v q/ t g n c v g f" e q o o w p k e c v k q p u" * y j g v j g t" w p f g t" v j g" F U T E" q t" E/ X 4 Z" u v c p f c t f u" + y q w n f" k o r q u g" j k i j" e q u v u" q p" e q p u w o g t u" y k v j" n k v w n g" t g v w t p" q p" v j g" j q t k | q p" c p f. " j g p e g. " c" u v c n n g f" 70; " I J |" d c p f" y q w n f" q p n { " t g o c k p" c" t q c f d n q e m" v q" v j g" t g e n k | c v k q p" q h" e q p u w o g t" c p f" r w d n k e" d g p g h k v u o 358"

680A I k x g p" v j g" u k i p k h k e c p v" c f x c p e g u" v j c v" j c x g" d g g p" o c f g" k p" c w v q o q v k x g" e q p p g e v k x v { " w u k p i" c" x c t k g v { " q h" o g c p u" k p" f k h h g t g p v" u r g e v t w o" d c p f u" q w v u k f g" q h" 70; " I J |. " c p" g x g t/ i t g c v g t" r q t v k q p" q h" v j g" q x g t c m n" x c n w c d n g" u r g e v t w o" t g u q w t e g" k u" d g k p i" w u g f" v q" u w r r q t v" c w v q o q v k x g/ t g n c v g f" h w p e v k q p u. " k p e n w f k p i" v j q u g" t g n c v g f" v q" u c h g v { 0" X k g y g f" h t q o" v j k u" r g t u r g e v k x g. " y g" c t g" p q" r g t u w c f g f" d { " c t i w o g p p u" v j c v" v j g" g p v k t g" 70; " I J |" d c p f" k u" p g g f g f" h q t" K V U" k p" q t f g t" v q" g p u w t g" v j c v" r q u u k d n g" h w v w t g" f g x g n q r o g p p u" e c p" d g" c e e q o o q f c v g f. " g x g p" k h" k v" k u" r q u u k d n g" v j c v" u w e j" h w v w t g" f g x g n q r o g p p u" e q w n f" r q v g p v k c m { " r t q x k f g" u q o g" c f f k v k q p c n" u c h g v { " d g p g h k v u o" G x g p" k h" g e j" q h" v j g" o g u u c i g" v { r g u" k f g p v k h g f" o c { " d g" p g g f g f" v q" f g n k x g t" u r g e k h k e" c r r n k e c v k q p u. " d c u k e" u c h g v { " o g u u c i g u" c p f" e q m g e v k x g" r g t e g r v k q p" o g u u c i g u" y q w n f" p q" d g" f g n k x g t g f" u k o w n v c p g q w u n { . " c p f" g c e j" v { r g" q h" o g u u c i g" y" k m n" j c x g" x c t { k p i" t g s w k t g o g p p u" h q t" h t g s w g p e { " c p f" f w t e v k q p o" V j w u. " y g" d g n k g x g" v j c v" v j g" K V U" o g u u c i k p i" u { u v g o" o w u v" y q t m" v q" r t k t k v k | g" c p f" f g n k x g t" o g u u c i g u" o q t g" g h h k e k e g p v n { " k p" v j g" 52" o g i c j g t v | " v j c v" y k m n" d g" c x c k n c d n g" h q t" K V U. " u w e j" c u" d { " c f l w u k p i" o g u u c i g" v k o k p i" v q" r t q x k f g" o w n v k r n g" v { r g u" q h" o g u u c i g u" q p" c" u k p i n g" e j c p p g n" v q" r t q x k f g" v j g" u c o g" n g x g n" q h" u c h g v { " v q" x g j k e n g u" c u" e c p" d g" f q p g" q p" v j g" g z k u v k p i" u r g e v t w o 0"

690A H k p c n { . " y g" f k u c i t g g" y k v j" K V U" r t q r q p p v u" v j c v" c u u g t v" v j c v" q w t" f g e k u k q p" y k m n" w p f g t e w v" W 0 U 0" n g c f g t u j k r" k p" k p p q x c v k q p" d c u g f" q p" q v j g t" e q w p v t k g u" c t q w p f" v j g" y q t n f" v j c v" j c x g" o c f g" o q t g" u r g e v t w o" c x c k n c d n g" h q t" K V U" k p" v j g" 70; " I J |" d c p f 0 359" C u" p q v g f. " v j g" c e v w c n" c o q w p v" q h" u r g e v t w o" x c t k g u" d { " e q w p v t { 0" C p f" y g" c t g" p q" c y c t g" q h" c p { " y k f g u r t g c f" f g r n q { o g p p u" v j c v" w u g" v j g" h w m" 97" o g i c j g t v | " v j c v" r t q r q p p v u" u c { " k u" p g g f g f" v q" o c k p v k p" W 0 U 0" n g c f g t u j k r" o k p f g g f. " k v" c r r g e t u" v j c v" v j g" W p k v g f" U v c v g u" k u" p q v" v j g" q p n { " e q w p v t { " y j g t g" v j g" n q p i" v k o g" r t q o k u g u" q h" K V U" j c x g" h c k n g f" v q" d g c t" h t w k v 0 35: " C u" u w e j. " y g" e q p e n w f g" v j c v" v c t i g v k p i" v j g" w r r g t" 52" o g i c j g t v | " h q t" K V U" w u g" * c p f" v t c p u k v k q p k p i" v j c v" u r g e v t w o" v q" E/ X 4 Z" q x g t" v k o g" + y k m n" g p c d n g" C o g t k e c" v q" n g c f" k p" v j k u" y k t g n g u u" u g e v q t. " c u" k v" j c u" k p" q v j g t u 0"

b. Transitioning ITS out of the 5.850-5.895 GHz Portion of the 5.9 GHz Band

6:0A Y g" c f q r v" t w n g u" g u v c d n k u j k p i" c" v k o g n k p g" h q t" g z k u v k p i" K V U" q r g t c v k q p u" v q" e g c u g" w u g" q h" v j g" n q y g t" 67/ o g i c j g t v | " * k 0 g 0" 70: 72/70: ; 7" I J | + " d c p f" u g i o g p v 0" k p" v j g" 5.9 GHz NPRM. " y g" t g e q i p k | g f" v j c v" c" n k o k v g f" p w o d g t" q h" F U T E" u { u v g o u" j c x g" d g g p" c w v j q t k | g f" c p f" e q p u v t w e v g f" y k v j k p" v j g" n c t i g t" 97" o g i c j g t v | / y k f g" 70; " I J |" d c p f" c p f" u q w i j v" e q o o g p v" q p" v j g" v t c p u k v k q p" q h" v j g u g" q r g t c v k q p u" v q" v j g" u r g e v t w o" v j c v" y q w n f" d g" t g v c k p g f" h q t" K V U 0 35: " K p" r c t v k e w n c t. " y g" c u m g f" y j g v j g t" y g" u j q w n f" c f q r v" c" u k z/ o q p v j" r g t k q f" k p" y j k e j" g z k u v k p i" F U T E" q r g t c v k q p u. " n k e g p u g f" w p f g t" r c t v"; 2" q h" q w t" t w n g u. " c p f" c m n" q p/ d q c t f" w p k v u" q r g t c v k p i" r w t u w c p v" v q" q w t" r c t v"; 7" t w n g u" y q w n f" j c x g" v q" t g/ e j c p p g n k | g" q t" f k u e q p v k p w g" u g t x k e g. " c u" y g m n" c u" y j g v j g t" c" u j q t v g t" q t" n q p i g t" r g t k q f" y q w n f" d g" c r r t q r t k c v g 0 362" Y g" c n u q" r t q r q u g f" v q" o q f k h { " g z k u v k p i" K V U" n k e g p u g u" v q" c m n q y" q r g t c v k q p" k p" q p n { " v j g" 70: ; 7/70: 47" I J |" r q t v k q p" q h" v j g" d c p f. " v q" v j g" g z v g p v" v j c v" n k e g p u g g u" y c p v g f" v q" q r g t c v g" c"

356* YKURC" Tgrn { "cv"4/50"

357* YKURC" Tgrn { "cv"330"

358* YKURC" Tgrn { "cv"8/90"

359" See, e.g., 71 CC" Eq o o g p p u" c v" 56/57" * o c p { " q v j g t" e q w p v t k g u" j c x g" c m n q e c v g f" c o q w p v u" u k o k n c t" v q" 97" o g i c j g t v | " h q t" K V U + " E c t" 4" E c t" E q o o g p p u" c v" 6/7" * q v j g t" e q w p v t k g u" c t g" c m n q e c v k p i" u r g e v t w o" h q t" e q q r g t c v k x g" c w v q o c v g f" f t k x k p i + " C w v q c m m u" E q o o g p p u" c v" 8/9" * o c p { " q v j g t" e q w p v t k g u" c m n q e c v g" o q t g" v j c p" 52" o g i c j g t v | " h q t" K V U + " C m n k e p e g" h q t" C w v q o q v k x g" k p p q x c v k q p" T g r n { " c v" 47/49: " E q v k p g p v c n" T g r n { " c v" 39/3; = " K V U" C o g t k e c" T g r n { " c v" 570"

35: " PEVC" Tgrn { "cv"4: /4; 0"

35: " 5.9 GHz NPRM. " 56" HEE" Tef" cv" 34838/3: . " r c t c u 0" 54/580"

362" 5.9 GHz NPRM. " 56" HEE" Tef" cv" 3483: . " r c t c 0" 580"

E/X4Z"u{uvg o."qt"kp"vjg"70: ; 7/70; 27" I J | "rqtvkqp"qh"vjg"dcpf."vq"vjg"gzvgrp"vjcv"nkegpuggu"y cpvqf"vq" eqpvkpwg"vjgkt" FUTE"qrgtcvkqpu³⁶³"

6;0A Yg"cfqrv"qwt"rtqrqucn"vq"tgswtg"gzkuvkpi"KVU"nkegpuggu"vq"egcug"uwg"qh"vjg"70: 72/70: ; 7" I J | "rqtvkqp"qh"vjg"70; " I J | "dcpf"cpf"yknm"rtqxfkg"KVU"nkegpuggu"wr"vq"ppg" { gct"htq o "v j g"ghhgevkg"fcvg"qh" v j k u "Hktuv" Tgrqtv"cpf" Qtfgt"vq"egcug"qrgtcvkpi"kp"vjku"rqtvkqp"qh"vjg"dcpf0"Uq o g"eq o o g p v g t u "u w r r q t v" t g s w k t k p i "v j g"KVU"qrgtcvkqpu"kp"vjg"nq y g t"67" o g i c j g t v | "v q"v t c p u k v k p p"q w v"q h"v j k u"u r g e v t w o "y k v j k p"u k z" o q p v j u"q h"q w t" f g e k u k q p .³⁶⁴ y j k n g"q v j g t u"u v c v g"v j c v"u k z" o q p v j u"k u"p q v"u w h h k e k g p v" d w v"q p g" { g c t"y q w n f"u w h h k e g"0³⁶⁵ Vcmkpi"vjg"tgeqtf"kpqv"ceeqwv." y g"dgnkxg"rtqxfkg"i"KVU"nkegpuggu"ppg" { gct"htq o "v j g"ghhgevkg"fcvg"qh" v j k u "Hktuv" Tgrqtv"cpf" Qtfgt"rtqxfkg"uwhhkekgpv"cpf"tgcupcdng"o qwpv"qh"vk o g" h q t"v j g o "v q"v c m g"v j g" p p e g u u c t i "u v g r u"v q"v t c p u k v k p p"h t q o "v j g"n q y g t"67" o g i c j g t v | "q h"u r g e v t w o "c p f"v q"g p i c i g"k p"v j g"u c o g"v { r g u"q h" q r g t c v k q p u"k p"v j g"w r r g t"52" o g i c j g t v | "v j c v"v j g" { "y g t g"e q p f w e k p i"k p"v j g"d c p f 0"V j w u . "q w t"c e v k q p"v q f c" { "y k n m" c e e q o o q f c v g"v j g"p g g f u"q h"v j g u g"k p e w o d g p v"n k e g p u g g u"c p f"r t q x k f g"u w h h k e k g p v"v k o g"v q"e q p u n k f c v g"v j g k t" q r g t c v k q p u"v q"v j g"w r r g t"r q t v k p"q h"v j g"d c p f . " y j k n g"g p c d n k p i"w p n k e g p u g f"u { u v g o "q r g t c v q t u"v q"d g i k p"v c m k p i" c f x c p v c i g"q h"v j g"W/PKK/6"dcpf"ykvj"kpfaqqt/qpn{"fgrnq{"ogpvu"cu"uqqp"cu"rqaukdng0

720A Vjg"Eq o o kuukqp"hktuv"uw i i g u v g f" c"u k z / o q p v j "v t c p u k v k p p"r g t k q f"p g c t n { "c" { g c t" c i q .³⁶⁶ r t q x k f k p i "n k e g p u g g u" c u" y g m" c u" o c p w h c e w t g t u" y k v j"p q k e g"v j c v"v j g" E q o o k u u k q p"y c u"e q p v g o r n c v k p i" c f q r v k p i"t w n g u"v j c v"y q w n f"t g s w k t g"v j g o "v q"x c e c v g"v j g"n q y g t"r q t v k p"q h"v j g"d c p f 0"D c u g f"q p"v j g"t g e q t f" d g h q t g"u w . " y g" d g n k x g"v j c v" c m q y k p i"q p g" { g c t" h t q o "v j g" g h h g e v k g" f c v g" q h"v j k u "H k t u v" T g r q t v" c p f" Q t f g t" k u" o q t g" v j c p" c f g s w c v g" h q t" K V U" n k e g p u g g u" c p f" g s w k r o g p v" o c p w h c e w t g t u"v q"v c m g"v j g"u v g r u"p g g f g f"v q"e q o r n g v g"v j g" v t c p u k v k p p"v q"v j g" o q f k h k g"K V U" d c p f 0" Y g" f q"p q v" d g n k x g"v j k u"v t c p u k v k p p"r g t k q f" r t g u g p v u" c p" w p f w g" d w t f g p"v q" v j g"K V U" n k e g p u g g u" c u . " v q" f c v g" . " v j g t g" j c x g" q p n { " d g g p" n k o k v g f"K V U" f g r n q { o g p v u" y k v j" t g n c v k x g n { " h g" y" k p u v c m n g f" v t c p u o k v v g t u" " D g e c w u g"v j g" o c l q t k v { " q h"v j g" k p u v c m n g f" d c u g" k u" d g k p i" w u g f" k p"v t k e n u" h q t" t q c f u k f g" w p k v u" * T U W u + " c v" m p q y p" n q e c v k q p u . " k v" u j q w n f" d g" u k o r n g"v q" k f g p v k h { " c p f" o q f k h { " v j c v" g s w k r o g p v 0" " C m" K V U" g s w k r o g p v" c w v j q t k | g f" k p"v j g" W 0 U 0" j c u"v j g" c d k n k v { "v q"q r g t c v g"q x g"v j g"w r r g t"92" o g i c j g t v | "q h"v j g"70; " I J | "d c p f 0" J p e g . " o q x k p i" q r g t c v k q p u"v q"v j g"w r r g t"52" o g i c j g t v | "u j q w n f" d g" r q u u k d n g" y k v j k p"v j g"r t q r q u g f"q p g / { g c t"r g t k q f" v k o g" h t c o g"v j t q w i j" h k t o y c t g" w r i t c f g u 0" H w t v j g t o q t g . " y g" f q"p q v" g z r g e v" q w t" f g e k u k q p"v q" f g n c { "k p v t q f w e v k q p" q h"q p/dqctf"wpkvu"QDWu"cu."wpfgt"pqt o cn" x g j k e n g" f g x g n q r o g p v" e { e n g u . " y g" y q w n f" g z r g e v" c v" n g c u v" y y q" { g c t u" d g h q t g" u w e j" g s w k r o g p v" e q w n f" d g" f g r n q { g f" k p" x g j k e n g u" k p" n c t i g" p w o d g t u 0³⁶⁷ O c p w h c e w t g t u" u j q w n f" j c x g" c o r n g" v k o g" v q" k p v g i t e v g" p g y" q p / d q c t f" w p k v u" v j c v" e q o r n { " y k v j" q w t" t w n g u" k p v q" h w w t g" o q f g n { " g c t" x g j k e n g u 0

730A Ceeqtfkpin{." y g" w u g" q w t" c w v j q t k v { " w p f g t" u g e v k q p u" 523 . " 52 ; . " c p f" 538" q h" v j g" E q o o w p k e c v k q p u" C e v" v q" o q f k h { " c m" g z k u v k p i" K V U" n k e g p u g u" v q" r g t o k v" q r g t c v k q p" q p n { " k p" v j g" 70 : ; 7 / 70 ; 47" I J | " r q t v k p" q h" v j g" 70 ; " I J | " d c p f" h q m q y k p i" v j g" q p g / { g c t" v t c p u k v k p p" r g t k q f 0" V j w u . " w p f g t" v j g" v g t o u" q h" v j g u g" o q f k h k g f" n k e g p u g u . " v j g" c w v j q t k v { " v q" q r g t c v g" k p" v j g" n q y g t" 67" o g i c j g t v | " y k n m" g z r k t g" c v" v j g" g p f" q h" v j k u" q p g / { g c t" r g t k q f 0³⁶⁸ " k p" c f f k v k q p . " d g e c w u g" n k e g p u g g u" c t g" t g s w k t g f" v q" t g i k u v g t" v j g k t" t q c f u k f g" w p k v u" * T U W u + " q p"

³⁶³ 5.9 GHz NPRM. '56'HEE'Tef"cv"34839."rtct0"560

³⁶⁴ See PEVC"Eq o o g p v u" c v" 66="V/Oqdkg"Eq o o g p v u" c v" 4 . " p 0 7 0 "

³⁶⁵ See, e.g., Ngwgt"htq"Ueqw" Fgnceqwtv."eqwpugn"htq" Cmkcpeg"htq" Cwvq o qvkg" Kppqxcvkqp"vq" Octngpg" J 0" Fqtvej . " Ugetgvct { "HEE."GV" Fqemgv" Pq0"3 ; /35 : . " c v" 5" * h k n g f" P q x 0" 32 . " 4242 + * u v c v k p i" v j c v" q p g" { g c t" y q w n f" r t q x k f g" u w h h k e k g p v" v k o g" h q t" k p e w o d g p v u" v q" v t c p u k v k p p" q w v" q h" v j g" n q y g t" 67" o g i c j g t v | += Q o p k C k t" E q p u q t v k w o . " K p e 0" * Q o p k C k t + " E q o o g p v u" c v" 33 0 "

³⁶⁶ 5.9 GHz NPRM. '56'HEE'Tef"cv"3483 : . "rtct0"580"

³⁶⁷ See Pcvkqpen" Jki j y c { "Vtchhke"Uchgv { "Cf o kpluvtvkqp" * P J VUC+ . " Fgrctv o g p v" q h" Vtcpu r q t v k v k p p" * F Q V + . " H g f g t c n" O q v q t" X g j k e n g" U c h g v { " U v c p f c t f u" = X 4 X" E q o o w p k e c v k q p u" P q k e g" q h" R t q r q u g f" T w n g o c m k p i" * P R T O + 0" : 4" H T" 5 : 76 . " y j k e j" u v c v g u" p g y" X 4 Z" t g s w k t g o g p v u . " k h" c f q r v g f . " y q w n f" r j e u g" k p" v y q" o q f g n { " g c t u" c h v g t" v j g" h k p c n" t w n g" k u" c f q r v g f" v q" c e e q o o q f c v g" x g j k e n g" o c p w h c e w t g t u 0" r t q f w e v" e { e n g u 0

³⁶⁸ Cu"rgt"69"W0U0E0E"538." y g" r t q x k f g" h q t" c" 52 / f c { " r t q v g v" r g t k q f" d g h q t g" v j g u g" o q f k h k e c v k q p u" e c p" d g e q o g" h k p c n 0" See infra. rtctciterj"4260"

urgekhe"ejcppgnu."cpf"pq"cmn"UWU"ctg"ewtgpwn{"tgi kuvgtgf"vq"qrgtcvg"vj tqwi j qwv"vj g"dcpfou"wr rgt"52" o g i c j g t v | "q h"urgetw o . "y g"ctg"o q f k h { k p i "c m n"nkegpugu"vq"cf f"v j g"70 : ; 7 / 7 0 ; 4 7 " I J | "e j c p p g n"dnqem"vq"v j g" e j c p p g n u "q p"y j k e j "g c e j "T U W"ku"cw v j q t k | g f "v q"q r g t c v g 0 3 6 9 " Y g "h k p f "v j c v"u w e j " o q f k h k e c v k p p u "c t g"e q p u k u v g p v " y k v j "q w t"u v c v w v q t { "c w v j q t k v { . "u w r r q t v g f" d { "l w f k e c n" c p f "E q o o k u u k q p" r t g e g f g p v . "c p f" y k m"u g t x g"v j g" r w d n k e" k p v g t g u v 0

740A Ugevqap"538"qh"vjg"Eq o o wpkecvkqpu"Cev"xguvu"vjg"Eq o o kuukqp"ykvj"dtqcf"cwvjqtkv{"vq" o q f k h { "nkegpugu"okh"kp"vjg"lwf i o g p v"q h"v j g"Eq o o k u u k q p"u w e j "c e v k q p" y k m"r t q o q v g"v j g" r w d n k e" k p v g t g u v . " e q p x g p k g p e g . " c p f " p g e g u u k v { 0 6 3 6 : " Y g " h k p f " v j c v " o q f k h { k p i " g z k u v k p i " K V U " c w v j q t k | c v k q p u " v q " u w p u g v " w u g " q h " v j g " n q y g t " 6 7 " o g i c j g t v | " q h " u r g e t w o " k p " v j g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " r q t v k q p " q h " v j g " 7 0 ; " I J | " d c p f " * c p f " e q p h k p g " v j g k t " q r g t c v k p p u " v q " v j g " w r r g t " 5 2 " o g i c j g t v | " q h " u r g e t w o " k p " v j g " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " r q t v k q p " q h " v j g " d c p f + " k u " y k v j k p " v j g " E q o o k u u k q p u " u v c v w v q t { " c w v j q t k v { . " e q p u k u v g p v " y k v j " r t k q t " E q o o k u u k q p " r t c e v k e g . " c p f " y k m " r t q o q v g " v j g " r w d n k e " k p v g t g u v . " e q p x g p k g p e g . " c p f " p g e g u u k v { 0 " Y g " c e e q t f k p i n { " y k m " o q f k h { " c m n " K V U " n k e g p u g u " d { " u w p u g v k p i " v j g k t " c w v j q t k | c v k q p u " v q " q r g t c v g " c v " 7 0 : 7 2 / 7 0 : ; 7 " I J | . " k p " q t f g t " v q " e c t t { " q w v " v j g " e n g t k p i " q h " v j k u " r q t v k q p " q h " v j g " d c p f 0 " K p " c f f k v k p . " v j g " E q o o k u u k q p " y k m " o q f k h { " c m n " c e v k x g " K V U " n k e g p u g u " v q " c w v j q t k | g " c m n " k p f k x k f w c m n { " t g i k u v g t g f " t q c f u k f g " w p k v u " * T U W u + " p q v " e w t g p v n { " t g i k u v g t g f " h q t " q r g t c v k q p " q p " v j g " h w m " 5 2 " o g i c j g t v | " q h " u r g e t w o " k p " v j g " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " u g i o g p v " q h " v j g " 7 0 ; " I J | " d c p f " v q " q r g t c v g " q p " v j c v " u g i o g p v 0 " Y g " c n u q " c f f " c u " c " e a p f k v k q p " q p " K V U " r c t v " ; 2 " n k e g p u g u " c " p q v k h k e c v k q p " t g s w k t g o g p v " e q p u k u v g p v " y k v j " v j g " v t c p u k v k p p " f g c f n k p g " q h " q p g " { g c t " h t q o " v j g " g h h g e v k x g " f c v g " q h " v j k u " H k t u v " T e r q t v " c p f " Q t f g t . " y j k e j " y k m " t g s w k t g " n k e g p u g u " v q " e g t v k h { " d { " v j c v " f g c f n k p g " v j c v " v j g { " j c x g " e g c u g f " q r g t c v k p i " k p " v j g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " r q t v k q p " q h " v j g " d c p f 0 " C p { " n k e g p u g g " v j c v " f q g u " p q v " v t c p u k v k p p " v j g " w r r g t " 5 2 " o g i c j g t v | " q h " u r g e t w o " k p " v j g " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " u g i o g p v " q h " v j g " 7 0 ; " I J | " d c p f . " c u " g x k f g p e g f " d { " h c k n w t g " v q " h k n g " v j g " t g s w k t g f " p q v k h k e c v k q p " c f x k u k p i " v j g " E q o o k u u k q p " q h " k v u " v t c p u k v k p p . " y k m " j c x g " v j g k t " n k e g p u g " v g t o k p c v g f " c w v q o c v k e c m n { " y k v j q w v " u r g e k h k e " E q o o k u u k q p " c e v k q p - " c p f " c v " c " t g c u a p c d n g " v k o g " c h v g t " v j g " v t c p u k v k p p " f g c f n k p g . " v j g " Y k t g n g u u " V g n g e q o o w p k e c v k p u " D w t g c w " y k m " c w v q o c v k e c m n { " t g o q x g " c m n " h t g s w g p e k u " k p " v j g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " r q t v k q p " q h " v j g " d c p f " v j c v " t g o c k p " q p " c p { " K V U " n k e g p u g . " k p e n w f k p i " q p " k p f k x k f w c m n { " t g i k u v g t g f " T U W u 0 " Y g " d n k g x g " v j g " p q v k h k e c v k q p " t g s w k t g o g p v " y k m " g p u w t g " e n g t k p i " q h " v j g " n q y g t " 6 7 " o g i c j g t v | " q h " u r g e t w o " c p f " r t q x k f g " v t c p u r c t g p e { " v q " c m n " u v c m g j q n f g t u " t g i c t f k p i " v j g " u v c w u " q h " v j g " d c p f 0 " Y g " f k t g e v " v j g " Y k t g n g u u " V g n g e q o o w p k e c v k p u " D w t g c w " v q " g u w c d n k u j " v j g " r t q e g f w t c n " t g s w k t g o g p v u " q h " v j g " p q v k h k e c v k q p " r t q e g u u " x i c " R w d n k e " P q v k e g 0

750A Yg"tgxkug"qwt"twngu"vq"rtqjkdv"pgy"KVU"cr rnkecvkqpu"hq"vjg"70:72/70:;7" I J | " r q t v k q p " q h " v j g " d c p f . " c u " y g m n " c u " o q f k h { " u g e v k q p " ; 7 0 5 3 8 5 " v q " t g h n g e v " v j c v " n k e g p u g f " d { " t w n g " q p / d q c t f " w p k v u " c t g " u k o k n c t n { " n k o k v g f " v q " q r g t c v g " q p n { " k p " v j g " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " d c p f " c u " q h " v j g " g p f " q h " v j g " q p g { g c t " u w p u g v " r g t k f f 0 3 6 : " Y j k n g " u q o g " g z k u v k p i " K V U " n k e g p u g u " j c x g " g z r k t c v k q p " f c v g u " v j c v " u v t g v e j " v q " 4 2 5 2 . 3 7 2 " y g " c t g " p q v " v g t o k p c v k p i " c p { " n k e g p u g " q t " c p { " n k e g p u g g u " t g p g y " c n " g z r g e v c p e { . " c p f " y g " d g n k g x g " v j c v " v j k u " v t c p u k v k p p " r i c p " v t g c u " g c e j " n k e g p u g " k p " c " e q p u k u v g p v " o c p p g t 0

760A Yg"ftgev"vjg"Yktnguu"Vngneq o o wpkecvkqpu"Dwtgcw"vq"o q f k h { "v j g" g z k u v k p i " n k e g p u k p i "

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36:"69"WOUE"È"5380"See also California Metro Mobile Commc'ns, Inc. v. FCC."587"H05f"5:."67"*F0E0"Ekt0"4226+" *øUgevqap"538"i t c p v " v j g " E q o o k u u k q p " d t q c f " r q y g t " v q " o q f k h { " n k e g p u g u 0 + 0

36:" Y g " p q v g " v j c v " x g j k e n g " q y p g t u " f q " p q v " p g e g u u c t k n { " j c x g " e q p v t q n " q x g t " q p / d q c t f " w p k v " q r g t c v k p p u 0 " V j g " t w n g " e j c p i " j g t g " k u " r t q e g f w t c n " k p " p c v w t g " c p f " v j g " E q o o k u u k q p " f q u " p q v " k p v g p f " v q " u g g m " g p h q t e g o g p v " c e v k q p " q p " x g j k e n g " q y p g t u " y k v j " q p / d q c t f " F U T E " w p k v u " v j c v " e a p v k p w g " v q " q r g t c v g " v j t q w i j q w v " v j g " 7 0 ; " I J | " d c p f 0 " C u " v j g u g " w p k v u " q r g t c v g " c v " n q y " r q y g t " n g x g n u . " y g " f q " p q v " d g n k g x g " v j g { " r a u g " c " u k i " p k h k e c p v " t k u m " q h " j c t o h w n " k p v g t h g t g p e g 0

372"Vjg"Eq o o kuukqp"kpukvwgf"chttg"lg"qp"pgy"KVU"nkegpugu"kp"vjg"70;" I J | " d c p f " k p " F g e g o d g t " 4 2 3 ; 0 " W i r e l e s s T e l e c o m m u n i c a t i o n s B u r e a u a n d P u b l i c S a f e t y a n d H o m e l a n d S e c u r i t y B u r e a u A n n o u n c e T e m p o r a r y F r e e z e o n t h e A c c e p t a n c e a n d P r o c e s s i n g o f P a r t 9 0 A p p l i c a t i o n s f o r C e r t a i n 5 8 5 0 - 5 9 2 5 M H z (5 . 9 G H z B a n d) S p e c t r u m . " G V " F q e m g v " P q 0 3 ; / 3 5 : . " R w d n k e " P q v k e g . " 5 6 " H E E " T e f " 3 4 5 5 5 * Y V D " (" R U J U D " 4 2 3 ; + * v g o r q t c t k n { " h t g g | k p i " v j g " c e e g r v c p e g " c p f " r t q e g u u k p i " q h " p g y " c p f " g z r c p f g f " w u g " c r n k e c v k p u " t g n c v g f " v q " r c t v " ; 2 " u g t x k e g u " q r g t c v k p i " k p " e g t v c k p " r q t v k q p u " * u r g e k h k e c m n { . " 7 0 : 7 2 / 7 0 : ; 7 " I J | " c p f " 7 0 ; 2 7 / 7 0 ; 4 7 " I J | + " q h " v j g " 7 0 : 7 2 / 7 0 ; 4 7 " I J | " d c p f " * 7 0 ; " I J | " d c p f + " c p f " q p " v j g " r t q e g u u k p i " q h " c r n k e c v k p u " v q " t g p g y " r c t v " ; 2 " n k e g p u g u " k p " v j g " 7 0 ; " I J | " d c p f + 0

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cwvjqtkv{"vq"qrgrtcvg"tqcfukfg"wpkvu"ykvj"E/X4Z/dcugf"vgejpnqi{"kp"vjg"70: ; 7/70; 47" I J |"dcpf"kp"vjg"
pgct"vgt"o"0"

³⁷³Vjku"kpenwfgu"rqtvcng"UWu"pqv"uwdlgev"vq"tgikuvtkvqp"tsgwtg"ogpvu"

³⁷⁴See, e.g., "Ngvgt"htq"o"Okvej"Decpyqn."Ejkgk" I xqgtp"ogpv"tgncvqp"Eqwpugn."Hqt"Oqvqt"Eq"o"rep{"Uvgrjgp"
Tqdg."X0R0."Hkcv"Ejt{ungt"Cwvq"oqdkngu"W0U0"NNE."gv"cn0"vq"Clkv"Rck."Ejckto"cp."HEE."GV"fqemg"pq0"3 ; /35: .cv"3/4"
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vjg"70; 27/70; 47" I J |"rqtvkqp"qh"vjg"70: ; I J |"dcpf"0"See, e.g., "Swneq"o"o"Pqx0"7."4242'Ex Parte"cv"3*tghgtpeki"vjg"
7 ICC"Rgvkqp"ht"Yckxgt"*hnkgf"Pqx0"43."423: +0"

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cr"rnkecvqp"qh"vjg"twng*u"yqwnf"dg"kp"swkvcng."wpfwn{"dwtfgpuq"og"qt"eqvtct{"vq"vjg"rwdnke"kpvtgtgu."qt"vjg"cr"rnkecvp"
jcu"pq"tgcupcdng"cnvgtpcvkg0+0"

³⁷⁶KVU"nkegpuggu"vjcv"qdvckp"c"yckxgt"o"uwv"eqqtkfpcvg"vjgkt"E/X4Z/dcugf"tqcfukfg"wpkvu"qrgrtcvqp"vq"gpwutg"vjcv"
vjqug"tqcfukfg"wpkvu"fq"pq"ecwug"jct"o"hwv"kpvgthgtgpeg"vq"cp{"FU TE/dcugf"tqcfukfg"wpkvu"vjcv"ctg"qrgrtcvki"kp"vjg"
70: ; 7/70; 47" I J |"dcpf"gvjgt"cu"ctg"tguwv"qh"vjgkt"vtcpukvqpki"vq"vjku"dcpf"rtkt"vq"vjg"qpg" {gct"uwpugv"fcvg"ht"
qrgrtcvqp"kp"vjg"70: 72/70: ; 7" I J |"dcpf"qt"hnqy"ykvj"vtcpukvqp"fcgfnkpg0"

³⁷⁷kp"vjg"htvjgt"Pqvkge."yg"uggm"eq"o"ogpv"qp"vjg"hnpcn"twngu"ht"E/X4Z"qrgrtcvqp"kp"vjg"70: ; 7/70; 47" I J |"dcpf"0"

780A Y g"cnug"y knn"vcmg"cevqpp"vq"gpdcng"wug"qh"E/X4Z/dcugf"qp/dqctf"wpkvu"cu"gzrgf"kvkqwu"cu" rqukdng"0"Dgecwug"qp/dqctf"wpkvu"ctg"nkegpugf"d{"twng"wpfgt"rctv";7."o cpwhcevtgtu"y knn"pggf"y ckgxtg"vq" qdvckp"gs wr o gpv"egtvkhecevqpp"qh"E/X4Z/dcugf"qp/dqctf"wpkvu"cu"y gnn"cu"y ckgxtg"vq"rgt o kv"uwej"fgxkeg" qrgtcvkqp"rtktq"vq"vjg"Eq o o kuukqp"cfqrkpi"hkpcn"twngu"htq"E/X4Z/dcugf"qp/dqctf"wpkvu" Y g"gpewtci g" rctvku"kpvtgugv"kp"rwtwkp"i"fgxgnqr o gpv."kpuvcnncvkqp."cpf"wug"qh"E/X4Z/dcugf"qp/dqctf"wpkvu"kp" cfxcpeg"qh"hkpcn"twngu"vq"fkuewu"vjgkt"gs wr o gpv"y kvj"vjg"Y ktgnuu"Vgngeq o o wpkecvkqpu"Dwtgcw."vjg" Rwdnke"Uchgv{"cpf"J q o gncpf"Ugewtkv{"Dwtgcw."cpf"vjg"Qhkeg"qh"Gp i kpggkpi"cpf"Vgejppqi i {"vq" fvgvt o kpg"vjg"cr rtrtkcvg"eqwtug"qh"cevqpp"vq"gpdcng"vjg"gzrgf"kvkqwu"tqm/qwv"qh"vjgug"fgxkegu"qp"xgjkengu" kp"o"o cpgt"vjg"cu"eqpukv"y kvj"gzkvkpi"vgejpkcn"twngu"cpf"vjg"y knn"pq"ecwug"jct o hwn"kpvtgthtgepeg"vq" FUTE/dcugf"qrgtcvkqpu"vjg"jcxg"pqv{"gv"vtpcvkqpg"vq"E/X4Z"qrgtcvkqpu³⁷⁸"Qwt"cevqpp"jgtg"rtqkfg" pggf"egtvckpv{"vjg"y knn"gpdcng"cu"o qqvjgt"cpf"o qtg"tcrkf"fgxgnqr o gpv"cpf"fgnrq o gpv"qh"E/X4Z/ dcugf"KVU"qrgtcvkqpu"kp"vjg"hwvwtg⁰

790A Y g"pqvg"vjg"KVU"Co gktec"uwi iguvf"vjg"vjg"Eq o o kuukqp"eqpukfgt"ceeftkpi"KVU" nkegpuggu"tgcupcdng"eq o rgpucvkqp"tgnvcg"vq"qwt"fgekukp"vq"tgs wktg"tgnqecvkqp"qh"KVU"qww"qh"vjg"nqygt"67" o gicjgtv|"qh"urgetwo."cnvjqwi j"kv"fkf"pqv"rtqrug"cu"urgekhe"o gejc pku o "hqt"uwej"hwvfkpi³⁷⁹"Vjg" Cmkcpeg"htq"Cwvq o qvkg"Kppqxcvkqp"nkmg y kug"cumgf"vjg"Eq o o kuukqp"vq"urgekhe{"kp"vjku"qtfgt"vjg" wpnkegpugf"gpvtcpvu"kp"vjg"70;" I J |"dcpf"o wuv"rtqkfg"vjg"tgcupcdng"equvu"kpewtgd{"gzkvkpi"KVU" nkegpuggu"vtpcvkqpp"i"qww"qh"vjg"dcpf³⁷⁷"Y jkng"uq o g"o gejc pku o "hqt"hwvfkpi"vjg"vtpcvkqpp"o ki jv"dg" cr rtrtkcvg."y g"fgenkpg"vq"cfqr"cu"urgekhe"o gejc pku o "kp"vjku"Hktuv"Trgtv"cpf"Qtfgt"dgecwug"y g"fkf"pqv" rtqrug"cu"eq o rgpucvkqp"o gejc pku o "kp"vjg"5.9 GHz NPRM."cpf"vjg"tghqgt"jcxg"pqv"rtqkfgf"rctvku"cp" cfgswevg"qr rqtvpkv{"vq"eq o o gpv"qp"uwej"cu"o gejc pku o "kp"cf"kvkqp."i kxgp"vjg"nk o kvgf"fgnrq o gpv"cpf" vjg"ncev"vjg"nkegpuggu"ctg"v rkecn{"iqxgtp o gpv"gpvkvku."y g"gzrgv"vjg"vjg"y knn"dg"nkvnng"rtcevkcn" fkhkewv{"qt"fkutwrvkqp"ecwug"d{"fgnc"kp"i"vjg"tguqnwv"qh"vjku"kuuwg"vq"vjg"HWvtjgt"pqvkeg⁰

B. Unlicensed Operations in the 5.850-5.895 GHz Band

7:0A Cu"fkuewuugf"cdqvg."y g"ctg"fgukipcvkpi"67"o gicjgtv|"kp"vjg"70:72/70:;7" I J |"rqtvkqp"qh" vjg"70;" I J |"dcpf"htq"wpnkegpugf"qrgtcvkqpu⁰Vjku"67"o gicjgtv|"dcpf"y knn"gzrcpf"vjg"wpnkegpugf" gequ{uvg o d{"rtqkfkpi"cf"kvkqpen"urgetwo"o cflcegpv"vq"vjg"wr rgt"gf ig"qh"vjg"W/PKK/5"dcpf"htq" wpnkegpugf"fgxkegu³⁷⁷;"

7:0A Dgnqy."y g"ugv"qww"vjg"vgejpkcn"cpf"qrgtcvkqpcn"twngu"htq"wpnkegpugf"qrgtcvkqpu"kp"vjg" 70:72/70:;7" I J |"dcpf"cu"y gnn"cu"twngu"htq"rtqvgvki"kpew o dgpvu"kp"vjg"dcpf⁰"Chvgt"tgxky"qh"vjg" rgtvkpgpv"vgejpkcn"cpf"ng i cn"kuuwgu"dghtg"wu"cp"cp"gzc o kpcvkqp"qh"vjg"tgeqtf."y g"cfqr"cu"uvcigf" cr rrtqcej"vq"ghhgevcvg"vjg"dcpf/tgrwtrkukpi"cevqpp"vcmgp"jgtgk⁰"Vjg"cr rrtqcej"y g"vcmg"ku"fgukipgf"vq" qrvok l g"vug"qh"vjg"70:72/70:;7" I J |"dcpf"d{"wpnkegpugf"qrgtcvkqpu"cu"uqpp"cu"rqukdng"kp"vjku"rqtvkqp"qh" vjg"70;" I J |"dcpf"y kvj"hwmm"eqpukfgtcvkqp"qh"vjg"pggf"vq"rtqvgv"kpew o dgpv"qrgtcvkqpu"kp"vjku"dcpf⁰" Urgekhecn{"cv"vjku"vk o g"y g"y knn"rgt o kv"qpn{"kpfqqt"wpnkegpugf"qrgtcvkqpu"vq"qrgtcvg"cetqu"vjg"gpvktg" 70:72/70:;7" I J |"rqtvkqp"qh"vjg"dcpf⁰"Y g"nk o kv"wpnkegpugf"vug"vq"kpqq"qrgtcvkqpu"kp"tgeq i pkvkqp"qh"vjg" rqvvpkcn"vjg"KVU"nkegpuggu"o c{"ewttgpn{"dg"qrgtcvkpi"kp"rqtvkqpu"qh"vjg"70:72/70:;7" I J |"dcpf"kp" rctvkewnct"igqi tcrjke"ctgcu."cu"y gnn"cu"vjg"pggf"vq"rtqvgv"hgfgtcn"kpew o dgpvu"qrgtcvkpi"kp"rctvkewnct" igqi tcrjke"lqpgu"kp"vjg"70:72/70:;7" I J |"dcpf⁰"Y g"fgenkpg"vq"cnmq"y"hwmm/rqygt"wpnkegpugf"qwwfqqt"

³⁷⁸ Y jkng"y g"gzrgv"vjg"ewttgpn" FUTE/dcugf"KVU"nkegpuggu"y knn"uggm"vq"vtpcvkqpp"vq"E/X4Z/dcugf"qrgtcvkqpu" gzrgf"kvkqwu"i."uwej"nkegpuggu"ctg"rgt o kvgf"vq"eqpukp"vq"qrgtcvg"kp"vjg"70:72/70:;7" I J |"dcpf"htq"wr"vq"qpg"l gct" chvgt"vjg"ghhgevcvg"fcvg"qh"vjg"Trgtv"cpf"Qtfgt."cpf"vq"qrgtcvg"kp"vjg"70:;7/70;47" I J |"dcpf"wr"wpkn"vjg"fcvg"vjg" vjg{"y knn"dg"tgs wktg"vq"vtpcvkqpp"vq"E/X4Z/dcugf"qrgtcvkqpu."y jke j"y knn"dg"guvcdnkujgf"kp"vjg"Ugeqpf"Trgtv"cpf" Qtfgt⁰

³⁷⁹ KVU"Co gktec"Trn{"cv"66⁰

³⁷:"Cmkcpeg"htq"Cwvq o qvkg"Kppqxcvkqp"Pqx⁰32."4242"Ex Parte"cv"6/70⁰

³⁷:"Kp"vjku"dcpf."wvntc/ykfgdcpf"fgxkegu"jcxg"dgpp"rgt o kvgf"vq"qrgtcvg."dwn"cv"xgt{"nqy"rqygt"ngxgnu"ugg"69"EHT" rctv"37."uwdrctv"H."cpf"wpnkegpugf"kp"i gpgtcn"jcu"dgpp"cwvjqt l g f"vq"qrgtcvg."dwn"cnug"cv"nqy"rqygt"ngxgnu"klgl."vjg" nk o kvu"kp"69"EHT"E"37042;+⁰

qrgtcvkqpu"cv"vjku"vk o g0"Kpuvgcf."uwej" wug" cetquu"vjg" dcpf" yknn" dg" cmmqy g f" cv" c"ncvgt"vk o g."chvgt"KVU" qrgtcvkqpu"jcxg"egcugf"vq"qrgtcvg"kp"vjg"70:72/70:;7" I J | "dcpf"cpf"chvgt"y g"jcxg"cfqrvgf"twngu"vjcv"y knn" gpuwtg"rtqvgevkqp"qh"hgfgtcn"qrgtcvkqpu"htq o"vjgug"qwwfqqt"qrgtcvkqpu" Y g"pqqgvjgnguu"y knn" cmmqy"uq o g" qwwfqqt"qrgtcvkqpu"kp"egtvckp"urgekhhgf"nqecvkqpu"kp"vjg" dcpf"vj tqw i j"vjg"UVC"rtqeguu"*k0g0."qp" c"pqp/ kpvgtgthgpeg"dcuku+."y jgtg"uwej"qrgtcvkqpu"y qwnf"pqv"ecwug"jct o hwn"kpvgthgtpgeg"vq"cp{ "kpew o dgpv" qrgtcvkqpu"

1. Technical and Operational Rules for Unlicensed Operations

820A Kp"vjg"5.9 GHz NPRM."y g"rtqrqugf"vq"rnceg"vjg"W/PKK/6"wpnkegpugf"fgxkeg"twngu"kp"rctv" 37."uwdrcv"G"cnqp i"y kvj"vjg"gzkuvki"W/PKK"twngu"cpf"uwdlgev"vq"cnq"qh"vjg"i gpgtcn"rctv"37"qrgtcvkqpcn" rtkpekrngu0" Y g"cnuq"rtqrqugf"vjcv"W/PKK/6"fgxkegu"dg"uwdlgev"vq"uk o knct"vgejpkecn"cpf"qrgtcvkqpcn"twngu"cu" cr rn{"vq"vjg"W/PKK/5"depf0"Rtqrqpgpvu"qh"KVU"ugtxkegu"uw i i guv"vjcv"W/PKK/6"qrgtcvkqpu"ujqwnf"dg" tguvtkevgf"vq"kpfaqqt/qpn{"wug"vq"rtqvgev"cf lcegpv/dcpf"KVU"qrgtcvkqpu"htq o"jct o hwn"kpvgthgtpgeg"382" 7 I CC."Ekueq."cpf"Swcneq o o"uwd o kv"vjcv"tguvtkevki"W/PKK/6"qrgtcvkqpu"vq"kpfaqqt/qpn{"wug"y qwnf"cnuq" cmmqy"htq"tgnczcvkqp"qh"vjg"QQDG"nk o kvu"qp"htgswgpeku"qwwukfg"qh"vjg"70:72/70:;7" I J | "dcpf."y jke j" y qwnf"cnuqy"htq" o qtg"hgzkdnq"wug"qh"vjg" dcpf"cpf" gpcdnq"tdwuv"y kfgdcpf"qrgtcvkqpu"kpfaqtu"383" Rtqrqpgpvu"qh"wpnkegpugf"qrgtcvkqpu"uw i i guv"vjcv"vjg"Eq o o kuukqp"ujqwnf"eqpukfgt"ugrctcvq"twngu"htq" kpfaqqt"cpf"qwwfqqt"W/PKK/6"depf"qrgtcvkqpu."tcvjgt"vjcp"cfqrvkpi"kpfaqqt/qpn{"wug"tguvtkevkqpu"qt"cr rn{ kpi" o qtg"vutkpi gpv"QQDG"nk o kvu" cetquu"cnq"wpnkegpugf"qrgtcvkqpu"kp"vjg"W/PKK/6" dcpf"384"

a. Indoor Unlicensed Operations to Protect Federal Incumbents and ITS Operations while ITS Remains in the 5.850-5.895 GHz Band

830A Y g"eqpenwfg"vjcv"kp"qtfgt"vq"rtqvgev"kpew o dgpv"70;" I J | "dcpf"ugtxkegu"htq o" r qvqpvkcn" kpvgtgthgpeg"d{"wpnkegpugf"qrgtcvkqpu"6" kpenwfkpi"hgfgtcn"kpew o dgpvu"cpf"KVU"qrgtcvkqpu"y jkng"vjqug" tg o ckp"kp"vjg"70:72/70:;47" I J | "rqtvkqp"qh"vjg" dcpf"6"y g"y knn"r gt o kv"qpn{"kpfaqqt"wpnkegpugf"qrgtcvkqpu"vq" qrgtcvg"cetquu"vjg" dcpf"cv"vjku"vk o g0"

(i) Protection of Federal Incumbents

840A Vjg"70872/70:47" I J | "dcpf"ku"cnqgecvgf"qp" c"r tk o ct{"dcuku"htq"vjg"Hgfgtcn" Tcfkqncqecvkqp" Ugtxkeg"cpf"ku" wugf"d{"vjg" Fgrctv o gpv"qh" Fghpgug"*FqF+"htq"hkzgf"cpf" o qdkng"tc fct"qrgtcvkqpu"385" Wpnkegpugf"W/PKK/5"fgxkegu"ewttgpn{"ujctg"urgewtvo"ykvj" FqF"tc fct"qrgtcvkqpu"kp"vjg"70947/70:72" I J | " dcpf"y kvj qwn" k o rng o gpvkpi"cp{"urgekcn"htgswgpe{"cxqkfcpeg"vgejpkswgu0"Wpnkegpugf"fgxkegu"i gpgtcn{" qrgtcvg"y kvj qwn" kpekfgpv"kp"vjg"W/PKK/5" dcpf0"Vjgtg"jcxg"dgpp"uq o g"kuqncvgf"kpuvcpegu"qh"jct o hwn" kpvgtgthgpeg."j q yxgt."y jke j"vjg"Eq o o kuukqp"y qtmgf"y kvj" PVKC"cpf" FqF"vq"tguqnxg"386" Pqvcnd{"cv"vjg" vk o g"vjg"Eq o o kuukqp"cfqrvgf"twngu"htq"vjg"W/PKK/5" dcpf."kv"y cu"wpceyctg"qh"vjgug" FqF"tc fct"u"387"Kp"vjg"

382" See, e.g., 7 I CC"Eq o o gpvu"cv"64."p0345="Ect"4"Ect"Eq o o gpvu"cv"3:="Ekueq"Eq o o gpvu"cv"37/38="Hqt" Tgrn{"cv":=" KGG"382;" Y qtmkpi" I tqwr"Eq o o gpvu"cv"37="Q o pkCkt"Eq o o gpvu"cv"32="Swcneq o o"Eq o o gpvu"cv"3:/3;="Vq{qvc" Tgrn{"cv"36="cpf"W0U0"VC I "Eq o o gpvu"cv"330"

383" See 7 I CC"Eq o o gpvu"cv"64."p0345="Ekueq"Eq o o gpvu"cv"37/38="Swcneq o o"Eq o o gpvu"cv"3:/3;0"

384" See, e.g., Dtaqfeq o lHcedgqmm"Eq o o gpvu"cv"8="Eq o ecu" Tgrn{"cv"34="F {pc o ke"Urgewtvo" Cnnkpeg"Eq o o gpvu"cv" 7="PEVC"Eq o o gpvu"cv"6;/72="Qrgp"Vgejpnqni{"Kpuvkvwvg"cv"Pg y"C o gtkec"y kvj"vjg"C o gtkec" Nkdct{"Cuqekcvkqp." Dgpvp" Hqwpfvcvkp."Pgzv" Egpvwt{"Ekvku."cpf"Rwdnke"Mp qnygf i g" Tgrn{"cv"44/46="Y k/Hk" Cnnkpeg"Eq o o gpvu"cv"9:/=" cpf" YKURC"Eq o o gpvu"cv"8/90"

385" See 69"EHT"È"403280"

386" Y g"ctg"cyctg"qh"jct o hwn"kpvgthgtpgeg"vjcv"qewttgf"vq"cp"Ckt"Hqteg"tc fct"vtcemkpi"u{wgo"vjcv"jcu"dgeq o g" qrgtcvkqpcn"cv"Ecrg"Epcxgtcn0" See"Cfxkuqt{"Pqkeg"7" I J | "Kpvgtgthgpeg"vq"Rcvtkem"Ckt"Hqteg"Dcug"cpf"Ecrg" Epcxgtcn"Ckt"Hqteg"Uvcvkqp"Vtcmkpi" Tcfctu."HEE"Gpqhgtg o gpv"Dwtgcw"Qhkhkg"qh"vjg"Hkgnf" Fktgevq"tgn0"Lwn0"49." 4238+0"

387"W/PKK" Tgrqvt"cpf"Qtfgt."34"HEE" Tef"cv"37;/8;/9"rctc0"68."3832."rctc0":4"*gucdnkujkpi"vjg"70947/70:47" I J | " *WPKK/5+dcpf="W/PKK"7" I J | "Tgrqvt"cpf"Qtfgt."4;"HEE" Tef"cv"6373."rctc0":."*cfkpi"70:47/70:72" I J | "vq"vjg" *eqvkwpgf i 0+ "

5.9 GHz NPRM. "y g"rtqrqguf"vq"cfqrv"vjg"uc o g"vgejpkecn"twngu"*g0i0."tcfkcvgf"rqygt."rqygt"urgetvcn"fgpukv{"gve0" hqt"W/PKK/6"fgxkegu"cu"crn{"vq"W/PKK/5"fgxkegu0""Vjg"Eq o o kuukqp"cnuq"uqwi jv"eq o o gpv"qp"y jgvjgt"vjgtg"ctg"cp{" o kvki cvkqp" o gcuwtgu."uwej"cu"vgejpkecn"qt"qrgtcvkqpcn"eqpfkvkqpu"qt"eqpuvtckpvu"vjcv"eqwnf"dg"ko rqugf"qp"W/PKK/6"fgxkegu."vq"rtqvgev"EqF"tcfcctu"kp"vjg"dcpf0388""Cpf"vjg"Eq o o kuukqp"eq o o kvvgf"vq"eqpvkpwg"y qtmkpi" y kvj"PVKC"cpf"EqF"vq"eqpukfgt"y jgvjgt"vjgtg"ctg"rqnekgu"qt"rtqegfwtgu"vjcv"eqwnf" o kpk o klg"vjg"rqvqpvkcn"htq"jct o hwn"kpvgthgtgpeg"vq"EqF"tcfcctu"htq o "W/PKK/6"fgxkegu0"

850A Eq o ecu"uwd o kvu"vjcv"vjg"Eq o o kuukqp"ujqwnf"cfqrv"kvu"rtqrqucn"htq"W/PKK/6"fgxkegu"vq"cfjgtg"vq"vjg"uc o g"vgejpkecn"twngu"cu"W/PKK/5"fgxkegu"y kvj"tguergev"vq"hgfgtcn"EqF"tcfcct"qrgtcvkqpu0389"YKURC"ci tggg"y kvj"vjg"Eq o o kuukqp"lwf i o gpv"vjcv"pq"qvjgt" o kvki cvkqp" o gcuwtgu"ctg"tgs wktgf"vq"rtqvgev"EqF"tcfcct"qrgtcvkqpu"kp"vjg"70;" I J |"dcpf038:"PEVC"uvvqu"vjcv"vjg"Eq o o kuukqp"ujqwnf"cfqrv"kvu"rtqrqucn"vq"cwvj qtklg"W/PKK/6"fgxkegu"y kvj qvw"tgs wktkpi"cp{"urgekcn"htgswgpe{"cxqkfcpeg"vgejpkswgu"qt"uk o knct"eqpuvtckpvu"ukpeg"W/PKK/5"fgxkegu"jcxg"ujctgf"urgetvwo"y kvj"eq/ejcppgn"hgfgtcn"kpew o dgpvu"htq" {gctu"y kvj qvw"cp{"urgekcnlgf"htgswgpe{"cxqkfcpeg"vgejpkswgu."cpf"kp"i gpgtcn"ujctkpi"jcu"dgpp"uweeguuhwn038:"PVKC"eqpfwevgf"cpnc{ugu"vq"cuuguu"vjg"rqvqpvkcn"qh"W/PKK/6"fgxkegu"vq"ecwug"jct o hwn"kpvgthgtgpeg"vq"EqF"tcfcct"qrgtcvkqpu0""Vjcv"cpnc{uku"eqpenwfgu"vjcv"55"fd o l42"O J |"gswxcngpv"kuqvtqrkecn{"tcfkcvgf"rqygt"*GKTR+"nk o kv"htq"kp fqqt"W/PKK/6"fgxkegu"ku"wpnkmgf"vq"ecwug"jct o hwn"kpvgthgtgpeg"vq"hgfgtcn"tcfcct"qrgtcvkqpu"kp"vjg"70;" I J |"dcpf0392""Yg"uwr rqtv"PVKC0u"tgeq o o gpf gfv"rqygt"nk o kv"cu"y g"dgngxg"kv"rtqrqgn{"dncpegu"hgfgtcn"tcfcct"rtqvgev"ngxgnu"y kvj"gpwtkpi"vjcv"W/PKK/6"fgxkegu"ecp"qrgtcvg"y kvj"gpw i j"rqygt"vq"rtqxfkfg"tgkcdng"eqppgevkqpu"vq"vjg"C o gtkecp"rwdnke0""Cu"PVKC"gzrtguugu"vjg"rqygt"ngxgn"cu"c"fgpukv{"qh"42"fd o lO J |."y g"ctg"cfqrvkpi"twngu"eqpukuvgpv"y kvj"vjcv"tgeq o o gpf cvkqp0"

860A Y jkng"y g"ci tgg"y kvj"PVKC0u"rqygt"fgpukv{"nk o kv"tgeq o o gpf cvkqp"htq"W/PKK/6"kp fqqt"fgxkegu."kv"ku"y qtvj"pqvkpi"vjcv"vjgtg"ctg"cpw o dgt"qh"PVKC0u"cuuw o rvkqpu"vjcv"fkhhgt"htq o "qwt"cuuw o rvkqpu"kp"vjg"6 GHz Report and Order"cpnc{uku0""Hqt"gzc o rng."qpg"fkuvkpevkqp"ku"y kvj"tguergev"vq"vjg"rtqdcdknkv{"vjcv"Yk/Hk"ejcppgn"ku"qrgtcvkpi"kp"vjg"W/PKK/6"dcpf0""Kp"i gpgtcn."v jku"rtqdcdknkv{"fgrgpfu"qp"ejcppgn"dcpf ykfvj."vjg"vqvcn"pw o dgt"qh"cxkncdng"ejcppgn"cetquu"vjg"wpnkegpugf"dcpfu"y kvj"vjg"eqttgurqp"fkpi"dcpf ykfvj."cu"y gnn"cu"vjg"ejcppgn"dcpf ykfvj"wug"fkuvtkdwwkq"42."62."2"qt"382"ogicjgtv|+0""Jqy xgt."PVKC0u"cpnc{uku"kp eqtrqtcvgu"cu"ejcppgn"uecnkpi"rctc o gvgt"vjcv"dtqcfn{"tghngevu"vjg"pw o dgt"qh"ghhgevxxg"wgutu"kp"vjg"W/PKK/6"dcpf"cpf"vjwu"eqpukfgtu"vjku"rtqdcdknkv{"wukpi"cu"kup ing"rctc o gvgt0393""Vjku"cpf"qvjgt"xct{kpi"cuuw o rvkqpu"ecp"ngcf"vq"uq o g"fkhhgtgpegu"kp"vjg"hkpcn"pw o gtkecn"tguwnvu0""Pgxgtvjnguu."y g"ci tgg"y kvj"PVKC0u"tgeq o o gpf cvkqp"vjcv"55"fd o l42"O J |"GKTR"nk o kv"y knn"pqv"

70947/70:47" I J |"W/PKK/5+"dcpf+:"69"EHT"E"370629*c+*5+0""Kp"kvu"eq o o gpv"kp"vjg"kpvkcn"rtqeggfki"vjcv"guvcdkujgfv"vjg"W/PKK/5"dcpf."PVKC"fkf"pqv" o gpvkp"tcfcct"vtcenkpi"u{uvg o u"qrgtcvkqpu"cv"Ecrg"Ecpcxgtn0""Ugg"PVKC"Trgn{."Fqemg"pq0";8/324."hknfg"Cwi0"38."3.;:8."Crrgpfkz"F"cv"7/70""Ugg"cnuq"PVKC"Eq o o gpv"kp"vjg"W/PKK/5"gzrcpukp"rtqeggfki."Fqemgv"pq0"35/6;."hknfg"Lwpg"32."42350"

388" See 5.9 GHz NPRM."56"HEE"Tef"cv"34846."rctcl"790"

389" Eq o ecu"Eq o o gpv"cv"32."p04:0"

38:" YKURC"Eq o o gpv"cv"90"

38:" PEVC"Eq o o gpv"cv"680"

392" PVKC"Vgejpkecn"Trgrqv"43/773"Eq o rckdknkv{"qh"Hgfgtcn"U{uvg o u"Qrgtcvkpi"kp"vjg"7:72/7;47"O J |"Dcpf"y kvj"Kpvgnki"gpv"Vtcurqvcvkqpu"U{uvg o u"cpf"Wpnkegpugf"Pcvkqpcn"Kphqt o cvkqp"Kphtcuvtwevtg"fgxkegu."Gf yctf"ftqegnc." [cp i"Ygpi."Okejcn" I jqt dcp|cfgj."Gfkuqp"Lwngcw."Pkemqcu"NeUqtvg."cv"390"

393" PVKC"cuuw o gfv"uecnkpi"hcevt"qh"47 ' 0"" I kxgp"vjcv"vjgtg"ctg"ugxgp"382/ogicjgtv|"ejcppgn"cxkncdng"kp"vjg"8" I J |"dcpf"rnuv"vjg"qpg"dgkpi" o cf g"cxkncdng"jgtg"d{"eq o dkkpi"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu."y g"dgngxg"PVKC"ku"vcnkpi"q"eqpugtxcvkxg"cr rtqej."qxgtguv o cvgu"vjg"pw o dgt"qh"wpnkegpugf"wgutu"vjcv" o c{"qrgtcvg"kp"vjku"dcpf0"GXgp"y kvj"vjku"cuuw o rvkqpu."PVKC0u"cpnc{uku"tguwnvu"kp" o czk o w o"rqygt"0k0g0."58"fd o +"htq"dcpf ykfvju"i tcvgt"vjcp"42"ogicjgtv|0""Vjwu."y g"ceegr"vjgkt"cpnc{uku"htq"vjg"rwrtrqugu"qh"cwvj qtk|kpi"rqygt"htq"wpnkegpugf"fgxkegu"kp"vjg"70;" I J |"dcpf0"

ecwug"jct o hwn"kpvgthgtgpeg"vq" FqF"tcfct"qrgtcvkqpu0"

870A Hqt"vjg"W/PKK/6"dcpf."kpfqqt"ceeguu"rqkpv"GKTR"y knn"dg"nk o kvgf"vq"55" fD o l42" O J |"cpf" 58" fD o l62" O J |0" Y jgp"eq o dkgpf"y kvj"W/PKK/5"dcpf"urgetw o ."kpfqqt"ceeguu"rqkpv"GKTR"ecp"uecng"vq" 58" fD o "hqt" : 2"cpf"382" o g i c j g t v | " e j c p p g n u 0 " W p f g t " v j k u " h t c o g y q t m . " q r g t c v q t u " t g n { k p i " q p " k p f q q t " W / P K K / 6 " f g x k e g u " y k n n " d g " c d n g " v q " q r g t c v g " c v " v j g " j k i j g u v " r q y g t " n g x g n u " y g " r g t o k v " h q t " W / P K K " f g x k e g u " * k 0 g 0 . " 5 8 " f D o " G K T R + " w u k p i " v j g " y k f g t " e j c p p g n u " v q " o c z k o k | g " v j t q w i j r w v " c p f " w w k n k v { " q h " v j g " d c p f 0 " " C v " v j g " u c o g " v k o g . " v j g " n k o k v " q p " r q y g t " f g p u k { " c e t q u u " c m n " r q u u k d n g " W / P K K " f g x k e g " d c p f " y k f v j u " y k n n " g p u w t g " v j c v " F q F " t c f c t u " c t g " r t q v g e v g f " h t q o " j c t o h w n " k p v g t h g t g p e g 0 " " K p " c f f k v k a p " v q " v j g " r q y g t " n k o k v " q p " i n d o o r " W / P K K / 6 " f g x k e g u . " P V K C " t g e q o o g p f u " h w t v j g t " t g f w e k p i " v j g " r q v g p v k a n " h q t " j c t o h w n " k p v g t h g t g p e g " d { " c f q r v k p i " t w n g u " g p u w t k p i " v j c v " k p f q q t " f g x k e g u " c t g " p q " f g r n q { g f " q w v f q q t u " c p f " v j c v " g z r g f k g p v " c p f " g h h g e v k x g " e q t t g e v k x g " o g c u w t g u " d g " r w v " k p " r n c e g " v q " g n k o k p c v g " k p v g t h g t g p e g " u j q w n f " k v " q e e w t 0 3 9 4 " " H q t " g z c o r n g . " P V K C " r q k p v u " q w v " v j c v " y g " e q w n f " n k o k v " f g x k e g u " v q " k p f q q t " w u g " d { " t g s w k t k p i " W / P K K / 6 " c e e g u u " r q k p v u " v q " i g v " v j g k t " r q y g t " v j t q w i j " c " y k t g f " e q p p g e v k p " * p q " d c w g t { / r q y g t g f + . " j c x g " c p " k p v i g i t c v g f " c p v g p p c . " c p f " p q " j c x g " c " y g c v j g t k | g f " g p e n q u w t g 0 3 9 5 " " P V K C " e q p v g p f u " v j c v " u j q w n f " j c t o h w n " k p v g t h g t g p e g " q e e w t . " W / P K K / 6 " u g t x k e g " r t q x k f g t u " u j q w n f " j c x g " v j g " e c r c d k n k v { " v q " t g o q v g n { " d n q e m " v j g " k p v g t h g t k p i " f g x k e g * u + " h t q o " w u k p i " e g t v c k p " e j c p p g n u " c p f l a t " v q " t g f w e g " v j g " q r g t c v k p i " r q y g t " q h " v j g " f g x k e g u 0 " P V K C " t g e q o o g p f u " v j c v " u w e j " o g c u w t g u " d g " v c m g p " k h " W / P K K / 6 " f g x k e g u " c t g " e c w u k p i " j c t o h w n " k p v g t h g t g p e g " v q " F q F " t c f c t u . " p q v k p i " v j c v " q p g " q h " v j g " r t k o c t { " q r g t c v k p i " e q p f k v k a p u " w p f g t " r c t v " 3 7 " k u " v j c v " v j g " q r g t c v q t " o w u v " e q t t g e v " j c t o h w n " k p v g t h g t g p e g " e v e n i f i t r e q u i r e s c e a s i n g o p e r a t i o n 0 3 9 6 " " P V K C " h w t v j g t " t g e q o o g p f u " v j c v " u g t x k e g " r t q x k f g t u " c p f " q r g t c v q t u " d g " g z r g e v g f " v q " t g u r q p f " r t q o r v n { " v q " u w e j " H E E " f k t g e v k x g u " w r a p " t g e g k r v 0 3 9 7 "

880A Y g " d g n k x g " v j g " d c u k e " o g c u w t g u " t g e q o o g p f g f " d { " P V K C " e c p " d g " v c m g p " v q " r t q v g e v " r t k o c t { " h g f g t c n " t c f k n q e c v k a p " q r g t c v k a p u " k p " v j g " d c p f " h t q o " k p f q q t " w p n k e g p u g f " q r g t c v k a p u " y k v j q w v " k o r q u k p i " w p f w g " d w t f g p u " q p " g s w k r o g p v " o c p w h c e w t g t u . " u g t x k e g " r t q x k f g t u " q t " w u g t u 0 " U r g e k h k e c m { . " e q p u k u v g p v " y k v j " v j g " t w n g u " v j g " E q o o k u u k p " c f q r v g f " h q t " 8 " I J | " n q y / r q y g t " k p f q q t " c e e g u u " r q k p v u 3 9 8 " c p f " e q p u k u v g p v " y k v j " P V K C 0 u " t g e q o o g p f c v k a p u . " y g " y k n n " t g s w k t g " W / P K K / 6 " f g x k e g u " v q " k p e q t r a t c v g " f g u k i p " o g c u w t g u " v q " g p u w t g " k p f q q t " f g x k e g u " c t g " p q " f g r n q { g f " q w v f q q t u 0 " " U k p e g " d w k n f k p i " c v g p w c v k a p " k u " c " m g { " h c e v q t " k p " o k p k o k | k p i " v j g " r q v g p v k a n " h q t " j c t o h w n " k p v g t h g t g p e g " h t q o " k p f q q t " c e e g u u " r q k p v u " v q " k p e w o d g p v u 0 " t g e g k x g t u . " y g " c t g " c f q r v k p i " t g c u q p c d n g " c p f " r t c e v k e c n " o g c u w t g u " v j c v " y k n n " t g u v t k e v " c e e g u u " r q k p v u " c v " v j k u " v k o g " v q " k p f q q t " q r g t c v k a p u 0 " U r g e k h k e c m { . " y g " c f q r v " v j t g g " g s w k r o g p v / t g n c v g f " j c t f y c t g " t g s w k t g o g p v u " v j c v " c t g " f g u k i p g f " v q " m g g r " v j g u g " n q y / r q y g t " c e e g u u " r q k p v u " k p f q q t u 0 " " F i r s t . " c u " u w i i g u v g f " d { " P V K C . " y g " y k n n " t g s w k t g " v j c v " v j g " c e e g u u " r q k p v " f g x k e g u " e c p p q " d g " y g c v j g t " t g u k u v c p v 0 3 9 9 " " S e c o n d . " y g " y k n n " t g s w k t g " v j c v " v j g " c e e g u u " r q k p v u " j c x g " k p v g i t c v g f " c p v g p p c u 3 9 " " q t " q v j g t y k u g " r t q j k d k v " v j g " e c r c d k n k v { " q h " e q p p g e v k p i " q v j g t " c p v g p p c u " v q " v j g " f g x k e g u . " y j k e j " y k n n " r t g x g p v " u w d u k v w v k p i " j k i j g t " i c k p " f k t g e v k a p c n " c p v g p p c u " c p f " o c m g " v j g " f g x k e g u " n g u u " e c r c d n g " q t " u w k v c d n g " h q t " q w v f q q t " w u g 0 " " T h i r d . " y g " y k n n " r t q j k d k v " v j g u g " c e e g u u " r q k p v u " h t q o " q r g t c v k p i " q p " d c v g t { " r q y g t " * g z e g r v " h q t " d c e m / w r " r q y g t " k p " e c u g " q h " c " r q y g t " q w v c i g + 0 " " H w t v j g t o q t g . " y g " y k n n " t g s w k t g " v j c v " v j g " c e e g u u " r q k p v u " d g " o c t m g v g f " 0 h q t " k p f q q t " w u g " q p n { 0 " c p f " k p e n w f g " c " n c d g n " c v w c e j g f " v q " v j g " g s w k r o g p v " u v c v k p i " v j c v " 0 H E E " t g i w n c v k a p u " t g u v t k e v "

394* See ngwgt"htq o "Ejctngu"Eqqrgt."Cuuqekcvg"Cf o kpkuvtcvt."Qhhkeg"qh"Urgewt w o "Ocpicg o gpv."PVKC."vq"Ot0" Tqpcnf" Tgrcuk."Ejkgk."Qhhkeg"qh"Gpikpggtkpi"cpf"Vgejppnqi {"."HEE."fcvgf"Ugrv0":."4242"*NTIA Sept. 8, 2020 Letter+"cv"60" Uge also Unlicensed Use of the 6 GHz Band."Tgrqtn"cpf"Qtfgt"cpf"Hwtvjgt"Pqkveg"qh"Rtqrugf"Twng o cmkpi."57"HEE" Tef"5: 74*4242+."jwrucllfqeulheel0ixl0rwdnkclcwcej o gpvulHEE/42/73C30r fh0

395* See .e.g.. "69"EHT"EE"370479."370625."cpf"3707390"

396* See 69"EHT"EE"37070"

397* See PVKC"Ugrv0":."4242"Ngwgt"cv"60"

398* 6 GHz Report and Order."57"HEE"Tef"cv"5: : 3."rctc0"329*"tgs w k t k p i " v j c v " c e e g u u " r q k p v u " p q " d g " y g c v j g t " t g u k u v c p v . " j c x g " k p v g i t c v g f " c p v g p p c u " c p f " r t q j k d k v " v j g " e c r c d k n k v { " q h " e q p p g e v k p i " q v j g t " c p v g p p c u " v q " v j g " f g x k e g u . " c p f " r t q j k d k v " q r g t c v k a p " q p " d c w g t { " r q y g t + 0 "

399* PVKC"Ugrv0":."4242"Ngwgt"cv"60"

39: " Y g " e n c t k h { " v j c v " c p v g p p c u " n q e c v g f " q w w k f g " q h " c p " g s w k r o g p v u " g p e n q u w t g . " d w v " y j k e j " c t g " r g t o c p p g n { " c v w c e j g f " v q " v j g " f g x k e g * g 0 i 0 " e q p u w o g t " Y k / H k " t q w v g t u " y k v j " o w n v k / c t t c { " c p v g p p c u + " c t g " e q p u k f g t g f " c u " j c x k p i " 0 k p v g i t c v g f 0 " c p v g p p c u 0 "

qrgrtcvkqp"vq"kpffqqt"wg"qpn{06"" Yg"y knn"cnug"tgsuktg"vjcv"vjku"ucvvg o gpv"dg"rncegf"kp"vjg"fgxkegou"wugt" o cpwcn0""Vjku"ucvvg o gpv."cnqpi"y kvj"gzkuvki"Eq o o kuukqp"tgsuktg o gpvu"hqt"rctv"37"gswr o gpv.³⁹:" y knn" kphqt o "eqpuw o gtu"qh"vjg"cr rrtqrkcvg"wg^{3:2}"" Yg"hkpf"vjcv"vjgug"tgsuktg o gpvu"y knn" o cmg"qvwfqqt"qrgrtcvkqpu" k o rrtcevekn"cpf"wpukvcdng0"

890A Eqpukuvgpv"y kvj"qwt"tgegpv"cevqpp"kp"vjg"6 GHz Report and Order."y g"cfqr"cp"gzgrvkvqp" vq"ceeg o o qfcvg"fgxkegu"uwej"cu"Yk/Hk"gzvpgfgtu"cpf" o guj"pgvy qtmkpi"gswr o gpv"kpvgpfgf"vq"y qtm"kp" eqplwpevkqp"y kvj"cp"kpffqqt"ceeguu"rqp"cpf"ujctg"vjg"uc o g"rtqrcicvkqp"rcvj"cpf"vjwu"vjg"uc o g"rqygt" tgsuktg o gpvu^{3:3}"" Yg"y knn"rgt o kv"uwej"fgxkegu"vq"qrgrtcvg"cv"vjg"uc o g"rqygt"ngxgnu"cu"cp"kpffqqt"ceeguu" rqp"rtqkxfgf"vjcv"vjg"eq o rn{"y kvj"cmn"vjg"tgsuktg o gpvu"y ug"qvw"hqt"vjgug"fgxkegu"*k0g0."vjg"fgxkeg" ecppqv"dg"y gcvjgt"tgukvcpv." o wuv"jcxg"cp"kpvgitcvgf"cpvgppc"cpf"ecppqv"jcxg"ecrcdkkv{"qh"eqppgevkpi" qvjgt"cpvgppcu."ecppqv"dg"ecrcdng"qh"qrgrtcvki"qp"dcvgt{"rqygt."cpf" o wuv"kpenwfg"cn"cdng"tgitctfki" rrtqrgt"wucig"cpf"vjg"gpv"wpk"qdvckpu"kvu"qyp"gswr o gpv"egtkhkecvkpp^{3:4}""Wpfgt"vjgug"tgsuktg o gpvu." o qfwngu"fq"pq"swcnkh{"hqt"jki jgt"rqygt0""Hwtvjgt."uwej"fgxkegu" o c{"dg"wguf"cu"rctv"qh"c" o guj"pgvy qtm" dwv" o c{"qpn{"dg"wguf"y kvj"kp"cu"ukpi"ng"uvtwevwtg"cpf"pqv"vq"eqppgev"ugrctcvg"dwknfkpi"u"qt"uvtwevwtg0"" Yg" dngkxg"uwej"tgnkgh"ku"ct"tgcupcdng"ceeg o o qfcvkqp"vq"mggr" o quv"rqrwct"eqpuw o gt"fgxkegu"nguu"eq o rngz" cpf" o qtg"chhqtfdcdng"y kvj"qvw"kpetgcvkpi"vjg"rqpvgkcn"qh"jct o hwn"kpvgthgtgpeg"vq"kpew o dgpv"nkegpuggu"cu" vjgug"fgxkegu"y knn"dg"kpucmgf"cpf"wguf"kp"c" o cppgt"cpnciq"qu"vq"cp"ceeguu"rqp⁰"

8:0A Rtrqurgevkg/W/PKK/6"qrgrtcvkqpu"rtqkxfgtu"jcxg"eq o o kvvgf."cu"cp"kpffwvwt{"dguv"rtcevekeg."vq" tg o qvgn{"dnqem"fgxkeg*u"htq o "wukpi"egtvckp"ejcppgnu"cpflqt"vq"tgfweg"vjg"qrgrtcvki"rqygt"qh"vjg" fgxkeg*u"wrqp"pqvkhkecvkqp"d{"vjg"Eq o o kuukqp"qh"jct o hwn"kpvgthgtgpeg"vq"EqF"tcfct0^{3:5}""D{"nk o kvkpi" vjgk"rqygt"fgpvk{"cpf"k o rng o gpvki"vjg"eqpvtqn"qh"vjg"ceeguu"rqp"qrgrtcvkqp."y g"ci tgg"y kvj"PVK"vjcv" W/PKK/6"fgxkegu"ecp"qrgrtcvg"kpffqqt"cv"nqecvkqpu"cetqu"vjg"Wpkvgf"Uvcvgu"uq"vjcv"vjg"C o gtkecp"rdnke"y knn" gplq{"vjg"y kfguv"fgnrq o gpv"qh"fgxkegu"rquukdng0"

(ii) Protecting ITS Operations During the Transition Period

8:0A Wpfgt"vjg"twngu"y g"cfqr"vqfc{."FUTE"fgxkegu"ctg"cmqygf"vq"eqpvkpwg"vq"qrgrtcvg"kp"vjg" nqygt"67" o gicjgtv{"qh"vjg"70;" I J |"dcpf"ht"qpg" {gct"chvgt"vjg"ghhgevkg"fcvg"qh"vjg"Hktu"Trqvt"cpf" Qtfgt0""Ceeqtfkpi n{"W/PKK"fgxkegu"kp"vjg"nqygt"67" o gicjgtv{"qh"vjg"70;" I J |"dcpf"y knn"dg"vg o rqtctkn" "

39:"Hqt"gzc o rng."69"EHT"È"3703 ; *c+*5+"tgsuktg"fgxkegu"vq"dgct"vjg"i gpgtci"eqp fkvkqpu"cuuqekcvg"y kvj"rctv"37" qrgrtcvkqp"cp"69"EHT"È"37043"tgsuktg"vjg"wgut" o cpwcn"vq"ecwvkqp"wgutu"vjcv"gswr o gpv" o qfkhkecvkqpu"pq"gzrtguun{" cr rrtqxf" d {"vjg"rctv{"tgruqpukdng"ht"eq o rnkpeg"eqwn"qxkf"vjg"wgutu"cwvjqtqk{"vq"qrgrtcvg"vjg"gswr o gpv0"

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3:3"6 GHz Report and Order."57"HEE"tef"cv"5;45/46."rctc0"3;50"

3:4"Vjgug"fgxkegu"ctg"tghgtg"vq"cu"uwdqtkfpcvg"fgxkegu"kp"vjg"twngu0"

3:5"See"Ngvgt"htq o "Fcpkngng"l0"Rk o gtgu."Xleg"Rtgukf"gpv" ("Cuuekcvg" I gpgtci"Eqwpugn."PEVC."vq"Octngpg"J0"ftqvej." Ugetgvct{."HEE."GV"fqemgv"Pq0"3;/35:."cv"4"*hngf"Qev0";0"4242+*PEVC"Qev0";."4242"Ex Parte+0"

qrgrtcvkpi"qp"cq/ejcppgn"dcuku"ykvj"KVU"qrgrtcvkqpu"kp"vjg"hg y"i gqi tcr jke"ctgcu"kp"y jkej" FUTE/dcugf" KVU"qrgrtcvkqpu"tg o ckp"kp"vjg"dcpf"kp"vjg"pgct"vgt o 0"

920A Vjgug"eq/ejcppgn"qrgrtcvkqpu"tgs wktg"wu"vq"fgxgnqr"twngu"vjcv"okpkoklg"vjg"ko rcev"qh" wpnkegpugf"fgxkeg"qrgrtcvkqpu"qp"KVU"qrgrtcvkqpu"Cu"chktuv"uvgr."y g"o wuv"gxcnvcvg"vjg"rtqdcdknk v{"qh" jct o hwn"kpvgthgtgpeg"vjcv"oc {"qeewt"wpfgt"ewttgpn" FUTE"u {uvgo"fgnrq {ogpv"fgpukvkgu"Qpeg"fgvgt okpgf." vjcv"rtqdcdknk v {"rtqxfkgu"dcuku"hq"cpnc { |kpi"vjg"rqvqpvkcn"vjcv"wpnkegpugf"qrgrtcvkqpu"oki jv"jcxg"qp"eq/ e jcppgn" FUTE"qrgrtcvkqpu"Qwt"cpnc {uku"ku"dcugf"qp"cp"cr r t q c e j " u k o k n c t " v q " v j c v " y j k e j " y g " w u g f " y j g p " k p v t q f w e k p i " w p n k e g p u g f " f g x k e g u " k p v q " v j g " 8 " I J | " d c p f . " y j g t g " n q y " r q y g t " k p f q q t " w p n k e g p u g f " Y k / H k " f g x k e g u " u j c t g " u r g e v t w o " y k v j " v j g " n k e g p u g f " H k z g f " c p f " O q d k n g " U g t x k e g u 0 3 : 6 " V j c v " d c p f " r t q x k f g u " c " d n w r g t k p v " h q t " u k o k n c t " c p n c { u k u " k p " v j g " 7 0 ; " I J | " d c p f " c u " v j g " k p v k c n " u j c t k p i " t g i k o g " k u " u k o k n c t = " p g y " w p n k e g p u g f " f g x k e g u " y k m n " d g " u j c t k p i " u r g e v t w o . " c n d g k v " q p " c " v g o r q t c t { " d c u k u . " y k v j " k p e w o d g p v " F U T E " t q c f u k f g " w p k v u " * T U W u + " c p f " q p / d q c t f " w p k v u " * Q D W u + 0 "

930A Ceeqt f k p i " v q " v j g " C o g t k e c p " C u u q e k c v k q p " q h " U v c v g " J k i j y c { " c p f " V t c p u r q t v c v k p " Q h h k e c n u " v j g t g " c t g " 8 . 3 : 4 " F U T E / d c u g f " t q c f u k f g " w p k v u " * T U W u + " f g n r q { g f " v j t q w i j q w v " v j g " W 0 U 0 " c p f " 3 7 . 7 2 8 " x g j k e n g u " g s w k r r g f " y k v j " F U T E / d c u g f " q p / d q c t f " w p k v u " * Q D W u + / 0 3 : 7 " H q t " e q p v g z v . " v j g t g " c t g " c r r t q z k o c v g n { " 4 9 6 " o k n m k q p " t g i k u v g t g f " x g j k e n g u " k p " v j g " W p k v g f " U v c v g u 3 : 8 " q r g t c v k p i " c e t q u u " c r r t q z k o c v g n { " 6 0 4 " o k n m k q p " o k n g u " q h " r c x g f " c p f " w p r c x g f " t q c f y c { u 0 3 : 9 " V j w u . " v j g " x c u v " o c l q t k v { " q h " x g j k e n g u " c t g " p q v " g s w k r r g f " y k v j " F U T E / d c u g f " q p / d q c t f " w p k v u . " I w u v " c u " x c u v " u v t g v e j g u " q h " t q c f y c { u " f q " p q v " j c x g " c p { " F U T E / d c u g f " t q c f u k f g " w p k v " k p u v c n c v k q p u 0 " V j g " t g n c v k x g " p w o d g t " q h " Q D W / g s w k r r g f " x g j k e n g u " q t " t q c f y c { " o k n g u " y k v j " k p u v c n g f " t q c f u k f g " w p k v u " k u " w p n k m g n { " v q " e j c p i g " k p " c p { " u k i p k h k e c p v " y c { " d g h q t g " K V U " q r g t c v k q p u " o q x g " q w v " q h " v j g " n q y g t " 6 7 " o g i c j g t v | 0 "

940A Kp"vjg" xgjkeng/vq/xgjkeng" *X4X+"eq o o wpkecvkqpu"uegpctkq."kpvgthgtgpeg"htq o "cp" wpnkegpugf"fgxkeg"ecp"qpn {"qeewt"kh"vjgtg"ctg"cv"ngcu"v y q" xgjkeng u" ykvj"qxgtncr rkp i"eqxgtc i g"ctgcu"cpf" vjgtg"ku"cv"ngcu"qpg"wpnkegpugf"fgxkeg"vtcpu okwkp i" ykvj"kp"vjcv"eqxgtc i g"ctgc"qp"vjg"uc o"e"jcppgn" Ceeqt f k p i " v q " W 0 U 0 " F Q V " t g r q t v " H J Y C / L R Q / 3 9 / 6 : 5 . " v j g " o c z k o w o " d R G T / H t g g " t c p i g o " * v j g " t c p i g " y k v j k p " y j k e j " v j g " K V U " R c e m g v " G t t q t " T c v g " * R G T + " k u " d n g n y " 4 2 " + " k u " 8 2 2 " o g v g t u " k p " c p " w p q d u v t w e i g f " g p x t k q o g p v 0 3 : : " Y g " g u v k o c v g " v j c v " k p " c " v { r k e c n " u e g p c t k q . " c v " c p { " k p u v c p v " q h " v k o g " v j g t g " e c p " d g " c u " o c p { " c u " 4 2 2 " x g j k e n g u " k p " v j g " R G T / H t g g " t c p i g 0 3 : : " V j g t g h t g . " v j g " r t q d c d k n k v { " v j c v " v y q " q t " o q t g " t c p f q o n { " u g n g e v g f " x g j k e n g u " c t g " g s w k r r g f " y k v j " c p " Q D W " c p f " c t g " y k v j k p " v j g " R G T / H t g g " e q o o w p k e c v k q p " t c p i g " k u " 2 0 2 2 2 2 8 5 4 8 0 3 : 2 " V q " u k o r n k h { " v j g "

3:6" See"57"HEE" Tef"cv"5: : . "Uwdugevkq" D0" Cnvjqw i j " v j g " c r r t q c e j " h q t " v j g " n k p m " c p n c { u k u " k u " o k n c t . " v j g " q x g t c n n " u k v c v k q p " k p " v j g " 7 0 ; " I J | " d c p f " k u " f k h g t g p v " k p " v j c v " 3 + " K V U " y k m n " q p n { " d g " q r g t c v k p i " e q / e j c p p g n " y k v j " w p n k e g p u g f " q r g t c v k q p u " k p " v j g " n q y g t " 6 7 " o g i c j g t v | " q h " v j g " 7 0 ; " I J | " d c p f " q p " c " v g o r q t c t { " d c u k u = " c p f " 4 + " v j g " f g p u k v { " q h " 7 0 ; " I J | " d c p f " k p e w o d g p v " K V U " q r g t c v k q p u " c e t q u u " v j g " W 0 U " k u " u k i p k h k e c p v { " n g u u " v j c p v " v j c v " q h " k p e w o d g p v " q r g t c v k q p u " k p " v j g " 8 " I J | " d c p f " 0 "

3:7" CCUJVQ"Eq o o g p u " c v " 9 0 "

3:8 See"Uvcvkucleq o . " P w o d g t " q h " o q v q t " x g j k e n g u " t g i k u v g t g f " k p " v j g " W p k v g f " U v c v g u " h t q o " 3 ; ; 2 " v q " 4 2 3 : . " j w r u l l y y y 0 u v c v k u c l e q o l u v c v k u c k e u 3 : 5 7 2 7 | p w o d g t / q h / x g j k e n g u / k p / v j g / w p k v g f / u v c v g u / u k p e g / 3 ; : 2 1 " * n c u v " x k u k v g f " Q e v 0 " 4 9 . " 4 2 4 2 + 0 "

3:9" See"dvu0iqx."Rwdnke" Tqcf"cpf"Uvtggn" Okngc i g"kp"vjg" Wpkvgf"Uvcvgu"d {"V {"rg"qh"Uwthceg." j w r u l l y y y 0 d v u 0 i q x l e a p v g p v l r w d n k e / t q c f / c p f / u v t g v g / o k n g c i g / w p k v g f / u v c v g u / v { r g / u w t h c e g c " * n c u v " x k u k v g f " Q e v 0 " 4 9 . " 4 2 4 2 + 0 "

3: See" W0U0" FQV" tgrqtv" HJ Y C / L R Q / 3 9 / 6 : 5 . " c v " 6 : / 7 4 . " V c d n g " 9 . " j w r u l l t q u c r 0 p v n 0 d v u 0 i q x l x k g y l f q v l 5 3 8 4 9 " * n c u v " x k u k v g f " Q e v 0 " 4 9 . " 4 2 4 2 + 0 "

3: "kp" c" hqwt/ncpg" t q c f y c { " y k v j " c " x g j k e n g " g x g t { " 3 4 " o g v g t u " v j g t g " y k m n " d g " 4 2 2 " x g j k e n g u " k p " c " 8 2 2 / o g v g t " u v t g v e j 0 " See" j w r u l l y y y 0 f t x k p i v g u w u e e g u 0 l e q o l d n q i l u c h g / u g r c t c v k q p / f k u v c p e g " * n c u v " x k u k v g f " Q e v 0 " 4 9 . " 4 2 4 2 + 0 " V j k u " c n u q " e q p u k u v g p v " y k v j " v j g " v { r k e c n " u e g p c t k q " c u " f g h k p g f " k p " v j g " W 0 U 0 " F Q V " t g r q t v " H J Y C / L R Q / 3 9 / 6 : 5 " See" v j g " t g r q t v " c v " 4 2 9 . " c p f " 6 3 + 0 " H w t v j g t o q t g . " v j g " o c z k o w o " p w o d g t " q h " f g x k e g u " v j g " F U T E " u { u v g o " e c p " j c p f n g " k u " c d q w w " 4 2 2 " x g j k e n g u 0 "

3:2" Vjg"rtqdcdknk v {"vjcv" c"tcpfq o n {"ugngevgf"tg i kuvgtgf" xgjkeng u"kp"vjg" Wpkvgf"Uvcvgu"ku" gswkr rgf" ykvj" cp"QDW"ku" 37.7281496.222.222"qt"20222790"Vjg"rtqdcdknk v {"vjcv"cv"ngcu"v y q"tcpfq o n {"ugngevgf" xgjkeng u"qww"qh"422"tg i kuvgtgf" xgjkeng u"ctg" gswkr rgf" ykvj" cp"QDW"kp" c"RGT/Htgg"tcp i g"ku"2022285480"

*eqvpkpwgf i 0+

ecnewncvqpp."cpf"nqqm"cv"vjg"yqtuv"ecug"ukvvcvkqp."y g"hwvtvjgt"cuuw o g"vjcv"vjg"rtqdcdknk{"qh"cp"wpnkegpugf" fgxkeg"vtcpu o kvkpi"y kvj"kp"vjg"eqxgtc i g"ctgc"qp"vjg"uc o g"ejcppgn"ku"ppg^{3:3}"Vjwu."vjg"rtqdcdknk{"qh" kpvtgthtgpege"ku"guugpvkcn{"c"hwpevkqp"qh"vjg"rtqdcdknk{"qh"v y q"qt"o qtg"QDWu"qrgtcvkpi"kp"vjg"RGT/Htgg" tci g."y jkej"ku"2022228548^{3:4}"

950A Uk o knctn{"kp"vjg"Xgjkeng"vq"kphtcuvtwevwtg"*X4K+"eq o o wpkecvkqpu"ukvvcvkqp."kpvtgthtgpege" htq o "cp"wpnkegpugf" fgxkeg"ecp"qpn{"qeewt"kh"vjg"tgc"ku"cv"ngcu"ppg"Xgjkeng"cpf"cv"ngcu"ppg"wpnkegpugf" fgxkeg" vtcpu o kvkpi"y kvj"kp"vjg"ctgc"qp"vjg"uc o g"ejcppgn⁰"Dgecwug"vjg"qp/dqctf"wpkv" vtcpu o kvu"cv"nq y gt"r q y gt."kvu"qrgtcvkpi"tci g"ugvu"vjg"nk o kv"qxgt"y jkej"cpn{"uku"ujqwnf"dg"eqpfwevgf⁰" Vjwu."hqt"vjg"X4K"uegpctkq."qwt"cpn{"uku"cuuw o gu"vjg"uc o g"RGT/Htgg"tci g"cpf"vjg"uc o g"pw o dgt"qh" Xgjkeng"cu"hqt"vjg"X4K"nkpm⁰"Vjg"rtqdcdknk{"qh"c"tcfq o n{"ugngevgf"Xgjkeng"gswwrgf"y kvj"cp"qp/dqctf" wpkv"cpf"y kvj"kp"vjg"RGT/Htgg"tci g"qh"c"tcfq o n"ku"2022222830^{3:5}"Cu"kp"vjg"X4K"uegpctkq."vjg"y qtuv" ecug"y qwnf"qeewt"y jgp"vjg"rtqdcdknk{"qh"cp"wpnkegpugf" fgxkeg"vtcpu o kvkpi"y kvj"kp"vjg"ctgc"qp"vjg"uc o g"ejcppgn"ku"ppg^{3:6}"Vjwu."vjg"rtqdcdknk{"qh"kpvtgthtgpege"ku"hwpevkqp"qh"vjg" r t q d c d k n k {" v j c v " c " t c f q o n {" u g n g e v g f " X g j k e n g " y k v j " k p " v j g " R G T / H t g g " t c i g " q h " c " t q c f u k f g " w p k v " k u " g s w k r r g f " y k v j " c p " Q D W . " 2 0 2 2 2 2 2 8 3 0 "

960A Cu"y kvj"qwt"8" I J | "dcpf"cpn{"uku"y g"eqpukfgt"qvjgt"ko r q t v c p v " h c e v q t u " u e w j " c u " d w k n f k p i " gpvt{"nquu."rtqdcdknk{"qh"htgswgpe{"xqgtnr."wpnkegpugf" fgxkeg"cpvppc"fkuet o kpcvkqp."rcvj"nquu."enwvgt" nquu."cpf"rqctk|cvkqp"nquu⁰"Kp"eqpukfgtkp i "v j g u g " h c e v q t u . " y g " v t g c v " c m n " q h " v j g " u v c k u v k e c n " s w c p v k v k g u " w u k p i " c " o g f k c p " q t " c x g t c i g " x c n w g . " c u " k u " e q o o q p n {" f q p g " k p " n k p m " d w f i g v " c p n {" u g u ^{3:7} " D g e c w u g " y g " c t g " n k o k v k p i " v j g " w p n k e g p u g f " f g x k e g u " v q " k p / d w k n f k p i " w u g " w p v k n " q p g " { g c t " c h v g t " v j g " g h h g e v k x g " f c v g " q h " v j k u " H k t u v " T g r q t v " c p f " Q t f g t . " v j g " e q / e j c p p g n " c p n {" u k u " k p e n w f g u " d w k n f k p i " g p v t {" n q u u " c p f " w u g u " c " o g f k c p " x c n w g " q h " 4 2 0 7 " f D . " e q p u k u v g p v " y k v j " v j g " 9 2 1 5 2 " d w k n f k p i " g p v t {" n q u u " * c " o k z " q h " 9 2 " " v t c f k v k p c n " c p f " 5 2 " " v j g t o c m n {" g h h k e k g p v " d w k n f k p i " v { r g u " v j c v " v j g " E q o o k u u k p " t g e q i p k | g f " k p " v j g " 6 G H z R e p o r t a n d O r d e r ^{3:8} " V j g " r t q d c d k n k {" q h " h t g s w g p e {" x q g t n r " f g r g p f u " q p " v j g " p w o d g t " q h " w p n k e g p u g f " f g x k e g " e j c p p g n u " c x c k n c d n g = " v j g " j k i j g t " v j g " p w o d g t " q h " c x c k n c d n g "

$$p_n(k_1 \leq k \leq k_2) = \sum_{k=k_1}^{k_2} \binom{n}{k} p^k (1-p)^{n-k}$$

See" Dgtppwkn" Vtknu" Rcrqwnku."C⁰*3; : 6+"Probability, Random Variables, And Stochastic Processes." Oe I tcy / J kmn." cv"64/68+0"

^{3:3}"Dgecwug"vjg"cevwcn"rtqdcdknk{"qh"vjku"ukvvcvkqp"qeewt"tkp i "ku"nguu"vjcp"ppg."tgcn/ y qtnf"tguwnvu"y kmn"tguwnv"kp" rtqdcdknk"ku"nguu"vjcp"vjcv"ecnewncvfg"jgtg⁰"

^{3:4}"Y g"tgeq i p k | g " v j c v " v j g " r t q d c d k n k {" q h " v y q " q t " o q t g " Q D W u " q r g t c v k p i " k p " v j g " R G T / H t g g " t c i g " o c {" d g " o c t i k p c n {" j k i j g t " k p " e g t v c k p " e k v g u l a q e c n k v k u " y k v j " c " j k i j g t " r t q d c d k n k {" q h " x g j k e n g u " d g k p i " g s w k r r g f " y k v j " c p " Q D W ⁰ " J q y g x g t . " u q " n q p i " c u " v j g " v q v c n " p w o d g t " q h " Q D W u " t g o c k p u " w p e j c p i g f " k p " v j g " W p k v g f " U v c v g u . " c p {" o c t i k p c n " k p e t g c u g " k p " r t q d c d k n k {" k p " p p g " q t " o q t g " c t g c " * u + " y k m " e q t t g u r q p f k p i n {" t g f w e g " v j g " r t q d c d k n k {" k p " v j g " t g o c k p k p i " c t g c u " q h " v j g " W p k v g f " U v c v g u ⁰ " V j g t g h q t g . " w p k h t o " f k u v t k d w k q p " q h " x g j k e n g u " g s w k r r g f " y k v j " c p " Q D W " k u " t g r t g u g p v c k x g " c p f " c r r t q r t k c v g " y j g p " e q p u k f g t k p i " c " p c v k p y k f g " n k e g p u g ⁰ "

^{3:5}"Vjg"rtqdcdknk{"vjcv"ctqcfukfg"wpkv"gzkuvu"kp"c"RGT/Htgg"tci g"cpf"cv"ngcu"ppg"ect"ku"gswwrgf"y kvj"cp"qp/dqctf" wpkv"ku"gswn"vq"rtqfwev"qh"vjg"rtqdcdknk{"vjcv"ctqcfukfg"wpkv"gzkuvu"kp"c"RGT/Htgg"tci g"cpf"vjg"eqpfkvpqcn" rtqdcdknk{"vjcv"ppg"qt"o qtg"Xgjkeng"qwn"qh"422"tg i kuvgtgf"Xgjkeng"ku"gswwrgf"y kvj"cp"qp/dqctf"wpkv⁰"Vjg" rtqdcdknk{"vjcv"ctqcfukfg"wpkv"gzkuvu"kp"c"RGT/Htgg"tci g"ku"i kxgp"d{"vjg"pw o dgt"qh"tqcfukfg"wpkv"o gu"vjg" rtqdcdknk{"qh"RGT/Htgg"tci gu"kp"vjg"W0U⁰"tqcf y c { u . " 8 . 3 : 4 " , " * 8 2 2 " 1 * 6 0 4 g 8 " , " 3 8 2 ; 0 5 + + " ? " 2 0 2 2 2 7 6 : 9 0 " V j g " e q p f k v k p c n " r t q d c d k n k {" v j c v " p p g " q t " o q t g " X g j k e n g u " q w " q h " 4 2 2 " t g i k u v g t g f " X g j k e n g u " k u " g s w k r r g f " y k v j " c p " q p / d q c t f " w p k v " h q m q " u " v j g " c d q x g " e q o d k p c v q t k n " c p n {" u k u " y k v j " t g u r g e v " v q " X 4 X ⁰ "

^{3:6}"Dgecwug"vjg"cevwcn"rtqdcdknk{"qh"vjku"ukvvcvkqp"qeewt"tkp i "ku"nguu"vjcp"ppg."tgcn/ y qtnf"tguwnvu"y kmn"tguwnv"kp" rtqdcdknk"ku"nguu"vjcp"vjcv"ecnewncvfg"jgtg⁰"

^{3:7}"See"57"HEE"Tef"cv"5; ; . ."rctcl⁰"349"

^{3:8}"See"57"HEE"Tef"cv"5; 55."rctcl⁰"43:0"

ejcppgnu."vjg"nqygt"vjg"rtqdcnkknv{"vjcv"icxgp"ejcppgn."kp"vjg"xkekpkv{"qh"cp"KVU"tqcfukfg"wpkv"qt"qp/dqctf"wpkv."qxgtncru"vjg"turgevkxg"KVU"ejcppgn"kp"vjg"nqygt"67"ogicjgtv|"qh"70;"IJ|"dcpf0"Yg"ci ckp"omg"cuuwo rnk{kp"i"cuuwo rvkqp"cpf"eqpukfgt"vjg"yqtuv"ecug"y jgtg"cp"wpnkegpugf"fgxkeg"wugu"vjg"eq o d k p g f " W / P K K / 5 " c p f " W / P K K / 6 " d c p f " v q " v t c p u o k v " q x g t " c " 3 8 2 / o g i c j g t v | " e j c p p g n . " t g u w n v k p i " k p " c p " c u u w o r v k q p " q h " 3 2 2 " " q x g t n c r " r t q d c d k n k v { " q h " c p " w p n k e g p u g f " f g x k e g " c p f " c p " K V U " f g x k e g 3 : 9 "

970A Kp"vjg"6 GHz Report and Order."vjg"Eq o o kuukqp"fgvgt o kpgf"vjcv"v{rkecn"kp"fqqt"gpvgt rtkug"cpf"eqpuw o gt"ceeguu"rqp"v"cpvgppc"GKTR"rcwgtpu"gzjkdv"nguu"i ckp"vqyctf"vjg"jqt|qp"cpf"vjcv" c"7"fd"cpvgppc"fkuetk o kpcvkqp"eqttgevkqp"ku"tgswtgfv"q"ceeqwv"htq"vjku"tgcn/yqtnf"dgjcxkqt03:"Kp"qwt" cpcn{uku."yg"cuuwo g"vjg"yqtuv/ecug."fktgev"nkpg/qh/ukijv"rtqrcicvkqp"eqpfkvpkqp0"Yg"pqvg."jgyxgt."vjg" htgg/urceg/rcvj/nquu"o qfgn"jcu"cnk o kvgf"tcpig"qh"cr rnkcedknkv{"dgecwug"kv"ki pqtgu"gpvktqp o gpvcn"enwvgt." y j k e j " q x g t " n q p i " f k u v c p e g u " e c p " t g u w n v " k p " g z v t g o g n { " e q p u g t x c v k x g " e c n e w n c v k q p u " v j c v " w p f g t / r t g f k e v " v j g " c o q w p v " q h " c e v w c n " r c v j " n q u u 0 " V j k u " k u " r c t v k e w n c t n { " v t w g " h q t " w d c p " c p f " u w d w t d c p " g p x k t q p o g p v u . " c u " y g m " c u " x g j k e w n c t " e q o o w p k e c v k p " g p x k t q p o g p v u . " y j g t g " e n w v v g t " n q u u " e c p " d g " s w k v g " u w d u v c p v k c n " f g r g p f k p i " q p " v j g " u g r c t c v k q p " f k u v c p e g 0 " Y g " c n u q " c u u w o g " c " r q n c t k | c v k q p " n q u u " h c e v q t " q h " 5 " f d " v j c v " c e e q w p v u " h q t " n q u u g u " f w g " v q " v j g " t g n c v k x g " q t k g p v c v k q p " q h " v t c p u o k v " c p f " t g e g k x g " c p v g p p c u 3 : : "

980A Kp"vjg"6 GHz Report and Order"vjg"Eq o o kuukqp"tgeq ipk|gf"vjcv"kphtgtppeg"htq o "Yk/Hk" fgxkegu"ku"fq o kpcvfg" d {"vjg"ukping"enquguv"Yk/Hk"fgxkeg"vq"vjg"xkev o 0422"Eqpukuvgpv"ykvj"vjcv"cr r t q c e j . " y g " c u u w o g " c " u k p i n g " Y k / H k " k p v g t h g t g t " h q t " q w t " e q / e j c p p g n " k p v g t h g t g p e g " c p c n { u k u 0 " C u u w o k p i " v j g " o c z k o w o " u g r c t c v k q p " f k u v c p e g " d g v y g g p " v y q " q p / d q c t f " w p k v u " v t c p u o k v k p i " y k v j " c " o c z k o w o " r q y g t " q h " 4 2 " f d o " G K T R " k u " 8 2 2 " o g v g t u . " v j g " t g e g k x g f " r q y g t " k u " / : 5 0 5 : " f d o 1 3 2 O J | " w p f g t " h t g g " u r c e g " r c v j " n q u u " e q p f k v k q p u 0 " U k p e g " v j g " c e e g u u " r q k p v " e c p " d g " n q e c v g f " c p { y j g t g " d g v y g g p " v j g " v y q " q p / d q c t f " w p k v u . " v j g " g z r g e v g f " r q u k v k p " k u " o k f y c { " d g v y g g p " v j g " v y q " * k 0 g 0 . " 5 2 2 " o g v g t u " h t q o " g c e j " q p / d q c t f " w p k v + 0 " C u u w o k p i " c " o c z k o w o " 4 2 " f d o 1 O J | " c e e g u u " r q k p v " v t c p u o k v " r q y g t " q x g t " v j g " 3 8 2 / o g i c j g t v | " e j c p p g n . 4 2 3 " v j g " t g e g k x g f " k p v g t h g t g p e g " r q y g t " c v " v j g " q p / d q c t f " w p k v u " k u " c r r t q z k o c v g n { / : 8 " f d o 1 3 2 O J | . " q x g t " 3 4 " f d " d g n q y " q p / d q c t f " w p k v " t g e g k x g f " r q y g t 0 "

990A Ceeguu"rqp"v"cpf"vjgkt"cuuqekcvgf"enkp"fgxkegu"o wuv"ujctg"pgv y qtm"ecrcekv{0"Vjg" :24033"Yk/Hk"uvcpfctfu"ko r ng o gpv"ujctkpi"cpf"eqpvtqn"ceeguu"vq"vjg"urgetw o "vj tqw i j" c"eqpvgpvkqp/dcugf" r t q v q e q n 0 4 2 4 " U k o k n c t n { . " F U T E " c n u q " k o r n g o g p v u " c " e q p v g p v k q p / d c u g f " r t q v q e q n " v j c v " c n u q y u " x g j k e n g u " v q " u j c t g " v j g " u r g e v t w o " y j k n g " v t c p u o k v k p i " d c u k e " u c h g v { " o g u u c i g u 0 4 2 5 " U g x g t c n " w p n k e g p u g f " r t q r q p g p v u " c u u g t v " v j c v " w u g " q h " c " e q p v g p v k q p / d c u g f " r t q v q e q n " k u " p q v " p g g f g f 0 4 2 6 " V j g " C n n k c p e g " h q t " C w v q o q v k x g " k p p q x c v k q p " c u u g t v u " v j c v " k v " k u 0 4 2 7 " Y g " c t g " p q v " t g s w k t k p i " w p n k e g p u g f " f g x k e g u " k p " v j g " 7 0 ; " I J | " d c p f " v q " k p e n w f g " c " e q p v g p v k q p / d c u g f " r t q v q e q n " d g e c w u g " v j g " e q / e j c p p g n " F U T E " q r g t c v k q p u " v j c v " y q w n f " d g " r t q v g e v g f " d { " u w e j " c " r t q v q e q n " c t g " p q v " y k f g n { " f g r n q { g f " c p f " v j q u g " v j c v " c t g " f g r n q { g f " c t g " t g s w k t g f " v q " x c e c v g " v j g " d c p f " k p " q p g " { g c t 0 " V j w u . " c p { " t g s w k t g o g p v "

3:9"Dgecwug"fgxkegu"yknn"wu"gc"okz"qh"42/ogicjgtv|.62/ogicjgtv|.2/ogicjgtv|"cpf"382/ogicjgtv|"ejcppgnu."vjg" cevwcn"qxgtncr"rtqdcnkknv{"ku"nguu"vjcp"qpg"cpf"vjg"rqpvpkcn"htq"jct o hwn"kpvgthgtpeg"qeevttkpi"ykn"dg"nguu"vjcp"vjg" rtqdcnkknv{"ecnewncvfgf"jgtg0"

3: "See"57"HEE"Tef"cv"5:;. "rctc0"3470"

3: "See"57"HEE"Tef"cv"5:;.2."rctc0"970"

422"See"57"HEE"Tef"cv"5:9;. "rctc0"930"

423"Qwt"twngu"nk o kv"vjg" o czk o w o "GKTR"vq"58"fd o "htq"cmn"ejcppgnu0"Vjwu."vjg"GKTR"rqygt"fgpvk{"ku"ikxgp"d"58" fd o "6"32, nqi32*382+?"36"fd o 1 O J | 0"

424"Uvcnkpi u."Y0."Fcv"cpf"Eq o r w v g t "Eq o o w p k e c v k q p u " 6 2 7 / 6 2 ; * 4 2 3 6 + 0 "

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426"See, e.g.. "PEVC"Pqx0"6."4242"Ex Parte cv"4="Oketquhiv"Pqx0";. "4242"Ex Parte cv"3="YKURC"Pqx0"32."4242"Ex Parte cv"4.

427"Cnnkpeg"htq"Cwvq o qvkxg"Kppqxcvkqp"Pqx0"32."4242"Ex Parte cv"8.

hqt" c" eqpvpgvkqp/ dcugf" rtqvqeqn" yqwnf" dg" qh" nk o kvgf" vwnkv { "cpf" qpn { "cr rncecdng" hqt" nk o kvgf" fwtcvkqp0" Pgxgtvj gnguu. "dgecwug" yg" gzrgev" vj cv" o quv. "kh" pqv" cmm. "fgxkegu" fgukipgf" vq" qrgtcvg" kp" vj g" dcpf" y knm kpeqrqtcvg" uwe j" c" ecrdcknv { "y jkej" cmmq y u" o wnvkrng" wugtu" vq" u jctg" urgevtw o "d { "rtqxfkpi" c" tgcucpdcng" qr rqtvwpkv { "hqt" vj g" fkhgtgpp" wugtu" vq" vtcpu o kv. 428" gxgp" y kvj qwv" c" tgswktg o gpv. "gzkuvkpi" FUTE" qrgtcvkqpu" y knm" dpgghkv" fwtkpi" vj g" qpg/ { gct" vtcupukvqp" rgtkf" cu" vj cv" ecrdcknv { "y knm" rtgxgpv" wnkpgpugf" fgxkegu" htq o " vtcpu o kvkpi" y jgp" cpqv jgt" uki pcn" ku" rtgugpv0" Oqtgqxtg. "vj g" eqpvpgvkqp/ dcugf" rtqvqeqn" kp" eqplwpevkqp" y kvj" vj g" gzrgev" f" nqy" Yk/Hk" cevxxkv { 429" ecp" tguwv" kp" nqy gt" fgxkeg" GKTR0" Y g" tgeq i pl g" vj cv" pqv" cmm" ceeguu" rqpvu" o c { "dg" nqecvgf" cv" vj g" o kfrqkp" dgv y ggp" qp/ dqctf" wpkvu" dw" kp jgtgpp" hgcvwtgu" uwe j" cu" vj g" Yk/Hk" eqpvpgvkqp/ dcugf" rtqvqeqn" rtqxfg" cuuw tcepg" qh" kpvgtgtgpeg/ htgg" qrgtcvkqp0" Vj wu. "ikxgp" vj cv" vj g" rtqdccknv { "qh" kpvgtgtgpeg" rqvpgvkc" kp" vj g" RGT/ Htgg" tcp i g" ku" 2022228548. "c" nqy" nqc" f" hcevt" qp" vj g" KVU" pgy y qtm. 42: "c" 34" fD" o cti k p" dgnqy" vj g" qp/ dqctf" wpkv" tgegxgf" r qy gt. "vj g" eqpvpgvkqp/ dcugf" rtqvqeqn" cpf" nqy" cevxxkv { "hcevt" qh" Yk/Hk" fgxkegu. "y g" eqpenw f g" vj cv" vj g" 42" fD o l O J | " y g" ctg" c f qrvkpi" vq" rtqvgev" hgf gtcn" qrgtcvkqpu" y knm" uk o knctn { "rtqvgev" FUTE/ dcugf" xgjkeng/ vq/ xgjkeng" *X4X+" qrgtcvkqpu" htq o " eq/ e j c p p g n" jct o hwn" kpvgtgtgpeg" fwtkpi" vj g" vtcupukvqp" rgtkf0

9: 0A Y g" tgej" c" uk o knct" eqpenwukqp" y kvj" tgu rgev" vq" X4K" nkpmu0" Dgecwug" vj g" QDW" vq" TUV" nkpm" nk o kvu" vj g" qrgtcvkpi" fkuvcepg. "y g" cuuw o g" vj g" uc o g" RGT/ Htgg" tcp i g" cpf" vj g" uc o g" pw o dgt" qh" xgjkengu" cu" hqt" vj g" X4X" nkpm" cpcn { uku0" Cu" vj g" rtqdccknv { "qh" kpvgtgtgpeg" hqt" vj g" X4K" nkpm" *20222283+ " ku" cp" qt fgt" qh" o c i p k w f g" nqy gt" vj cv" vj g" X4X" nkpm" *2022228548+ " cpf" hqmq y kpi" vj g" uc o g" nqi ke. "y g" eqpenw f g" vj cv" vj g" 42" fD o l O J | " y g" ctg" c f qrvkpi" vq" rtqvgev" hgf gtcn" qrgtcvkqpu" y knm" uk o knctn { "rtqvgev" FUTE" X4K" qrgtcvkqpu" htq o " eq/ e j c p p g n" jct o hwn" kpvgtgtgpeg" y j k n g" vj g" { "ctg" uvknn" qrgtcvkpi" kp" vj g" nqy gt" 67" o g i c j g t v | 0

9: 0A Client Devices. "Eqpukuvgpv" y kvj" vj g" twngu" hqt" vj g" 8" I J | " dcpf" cu" y gmm" cu" vj g" W/ PKK/ 3" dcpf. "y g" ctg" c f qrvkpi" twngu" vj cv" nk o kv" enkgpv" fgxkegu" vq" r qy gt" ngxgnu" 8" fD" dgnqy" vj g" r qy gt" nk o kvu" hqt" ceeguu" r qkpvu0 42: " Y g" hkp f" vj ku" cr r t r t k c v g" vq" t g f w e g" vj g" r qv g p v k n" qh" j c t o h w n" k p v g t g t g p e g" v q" e q / e j c p p g n" q r g t c v k q p" y k v j k p" vj g" d c p f" d d q v j" y k v j" F U T E" q r g t c v k q p u" * w p v k n" u w e j" v k o g" c u" vj g" { " o q x g" q w v" q h" vj g" d c p f + " c p f" y k v j" F q F" t c f c t" q r g t c v k q p u" vj c v" y k n m" t g o c k p" k p" vj g" d c p f 0 " K p" i g p g t c n. "c" enkgpv" fgxkeg" qrgtcvku" w p f g t" vj g" eqpv t q n" qh" cp" ceeguu" r qkpv" dw. "fgrgp fkp i" qp" vj g" u g r c t c v k p" f k u v c e p g" h t q o " vj g" c e e g u u" r q k p v. "v j g" e n k g p v" f g x k e g" o c { "j c x g" c" u n k i j v n { "f k h g t g p v" r t q r c i c v k q p" r c v j" c p f" j g p e g. "c" u n k i j v n { "f k h g t g p v" k p v g t g t g p e g" r q v g p v k n" v q" c" x k e v k o" t g e g k x g t 0" V q" g p u w t g" vj c v" e n k g p v" f g x k e g u" t g o c k p" k p" e n q u g" r t q z k o k v { "v q" vj g" k p f q q t" c e e g u u" r q k p v u" c p" vj w u" m g g r" vj g" r q v g p v k n" h q t" e c w u k p i" j c t o h w n" k p v g t g t g p e g" n q y. "y g" ctg" t g s w k t k p i" e n k g p v" f g x k e g u" v q" q r g t c v g" q p n { "w p f g t" vj g" e q p v t q n" qh" cp" ceeguu" r qkpv" cpf" nk o kvkpi" vj gkt" RUF" cpf" o czk o w o" vtcpu o kv" r qy gt" vq" 8" fD" dgnqy" vj g" r qy gt" r g t o k v g f" h q t" vj g" c e e g u u" r q k p v u 0" V j g" t g s w k t g o g p v" vj c v" e n k g p v" f g x k e g u" q r g t c v g" q p n { " w p f g t" vj g" e q p v t q n" qh" cp" ceeguu" r qkpv" ku" uk o knct" vq" vj g" t g s w k t g o g p v" vj g" E q o o k u u k q p" c f q r v g f" h q t" 8" I J | W/ P K K" f g x k e g u" v q" r t q v g e v" e q / e j c p p g n" k p e w o d g p v" q r g t c v k q p u 0 432" K p" g u u g p e g. "v j k u" n k o k v c v k q p" r t g x g p v u" q w w f q q t" e n k g p v/ v q/ e n k g p v" e q o o w p k e c v k q p u" v j c v" e q w n f" e c w u g" j c t o h w n" k p v g t g t g p e g" v q" h g f g t c n" t c f k q n q e c v k q p" u v c v k q p u" c p f" v q" e q / e j c p p g n" K V U" q r g t c v k q p u" r g p f k p i" v j g k t" o q x g" v q" vj g" 70: ; 7/70; 47" I J | dcpf0" Y g" g z r n q t g" k p" vj g" H w t v j g t" P q v k e g" y j g v j g t" y g" e c p" t g o q x g" vj g" r t q j k d k v k q p" q p" e n k g p v/ v q/ e n k g p v" e q o o w p k e c v k q p u" c h v g t" K V U" u { u v g o u" o q x g" q w w" q h" vj g" W/ PKK/ 6" dcpf" cpf" qpn { "h g f g t c n" t c f k q n q e c v k q p" u k v g u" y k n m" p g g f" v q" d g" r t q v g e v f 0

428" See" 57" HEE" Tef" cv" 5: ; ; " rctc0" 3230"

429" EcdngNcdu" enck o u" vj cv" dg o rktkcn" 7" I J | " Yk/Hk" cevxxkv { "fcvc" htq o "722.222" Cru" o gcuwtgf" qxgt" vgp" fc { u" t g x g c m u" vj c v" vj g" ; ; ; " r g t e g p w k n g" r g c m" Y k / H k" c e v x x k v { " n g x g n" k u" k p" h c e v" 9 ' . " c p f" vj g" y g k i j v g f" c x g t c i g" c e v x x k v { " h c e v t" k u" 206 ' 06" See" PEVC" Tgrn { . "Cwcej o gpv" C" cv" 390"

42: "Cu" pqvgf" cdqyg. "vj g" rtqdccknv { "qh" v y q" qt" o qtg" xgjkengu" dgkpi" kp" vj g" RGT/ Htgg" tcp i g" ku" 20222285480" Gxgp" cuuw o kpi" v y q" x g j k e n g u" c t g" k p" vj g" R G T / H t g g" t c p i g. "hqt" c" pgy y qtm" vj cv" ecp" j cp fng" 426" xgjkengu" vj ku" ku" c" xgt { "nqy" pgy y qtm" nqc f0

42: "See" 57" HEE" Tef" cv" 5; 44. " rctc0" 3: ; ; " c p f" 69" EHT" E" 370629* c + * 3 + * k x + " n k o k v k p i" W/ PKK/ 3" enkgpv" fgxkegu" vq" 472" o Y" qt" 8" fD" dgnqy" vj g" 3" Y" rgt o kvgf" hqt" ceeguu" r qkpvu0

432" 69" EHT" 370629* f + * 7 + 0"

(iii) Out-of-Band Emission Limits

:20⁴³³ Kp"vjg"5.9 GHz NPRM."yg"rtqrqguf"vq"nk"okv"vjg"QQDG"htq o "W/PKK/6"fgxkegu."qt"fgxkegu"vjcv"qrgtcvg"cetquu"u"ukping"ejcppgn"vjcv"urcpu"vjg"W/PKK/5"cpf"WPKK/6"dcpfu."vq"/49"fd o l o J | "cv"qt"cdqyg"70; 47" I J | ."y jkej"ku"vjg"uc o g"nk"okv"tgs wktgf"htq"W/PKK/5"fgxkegu"cv"vjku"htgswgpe{"="y g"uqwi"jv"eq o o gpv"i gpgtcn{"qp"vjg"QQDG"nk o kvu"y g"ujqwnf"cr rn{"cv"vjg"wr rgt"gp f"qh"vjg"W/PKK/6"dcpf"0⁴³³"Y g"hwvtjgt"rtqrqguf"vjcv"W/PKK/6"fgxkegu."qt"fgxkegu"vjcv"qrgtcvg"cetquu"u"ukping"ejcppgn"vjcv"urcpu"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu." o gg"vjg"uc o g"QQDG"nk o kvu"cu"W/PKK/5"fgxkegu"cv"vjg"nq y gt"gf i g"qh"vjg"eq o d kpgf"W/PKK/5"cpf"W/PKK/6"dcpf."k l g l."cv"70947" I J | ."y jkng"pqv"ko r qukpi"cp"QQDG"nk o kv"htq"W/PKK/6"fgxkegu"cv"vjg"W/PKK/51W/PKK/6"dcpf"gf i g"*k l g l."cv"70: 72" I J | +⁴³⁴"Vjgug"rtqrqgucnu"y gtg"kpvgpfgf"vq"uwr rqtv"ugrctevg"W/PKK/5"cpf"W/PKK/6"dcpfu"vq"rtqxfg"hgzkdkkv{"htq"fgukipki"W/PKK/5"sgwkr o gpv"wpfgt"vjg"nguu"uvtkpi"gpv"QQDG"twngu"cv"vjg"wr rgt"gf i g"qh"vjg"dcpf."cpf"rtqxfg"hgzkdkkv{"htq"fgxkegu"vq"qrgtcvg"cetquu"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu"wkpi"vjg"y kfgu"dcpf y kf v j u"rgt o kvgf"wpfgt"vjg"KGGG": 24033"uvcfctf"0⁴³⁵

:30⁴³⁴ Rtqrqpgpvu"qh"KVU"qrgtcvkqpu"eqvpgf"vjcv"vjg"rtqrqguf"wpnkegpugf"fgxkeg"QQDG"nk o kv"cv"70; 47" I J | "ku"pq"tguvkevxg"gpqwi"j"vq"rtqveg"KVU"qrgtcvkqpu"kp"vjg"70: ; 7/70; 47" I J | "dcpf"htq o "jct o hwn"kpvgthtgpge"0⁴³⁵"KVU"rtqrqpgpvu"uwi"i guv"vjcv"W/PKK/6"fgxkegu."qt"fgxkegu"vjcv"qrgtcvg"cetquu"u"ukping"ejcppgn"vjcv"urcpu"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu." o gg"v"QQDG"nk o kvu"vjcv"ctg"o wej"o qtg"tguvkevxg"vjcp"vjg"gzkuvkpi"W/PKK/5"QQDG"nk o kvu" I gpgtcn"Oqvqtu"uwi"i guv"vjcv"W/PKK/6"wpnkegpugf"fgxkegu"nk o kv"vjg"kt"QQDG"vq"/39"fd o l o J | "kp"vjg"htuv"32"o g i c j g t v | "d g { q p f"vjg"dcpf"gf i g"*70: ; 7/70; 27" I J | + "cpf"/49"fd o l o J | "cv"qt"cdqyg"70; 27" I J | = "Vq { qvc"uwi"i guv"vjcv"vjg"QQDG"dg"nk o kvgf"vq"/49"fd o l o J | "cv"qt"cdqyg"70: ; 7" I J | = "Ect"4"Ect."KGGG"382; "Yqtmkpi" I tqwr."WU"Vgejpkcn"Cfxkuqt{" I tqwr."cpf"Xqnmuyci"gp"ugrctevgn{"uwi"i guv"vjcv"W/PKK/6"QQDG"dg"nk o kvgf"vq"/62"fd o l o J | "cv"32"o g i c j g t v | "cdqyg"vjg"dcpf"gf i g."vjg"uc o g"cu"vjg"qww/qh"ejcppgn"nk o kv"htq"KVU"fgxkegu="cpf"htq"uwi"i guv"vjcv"QQDG"dg"nk o kvgf"vq"/32: "fd o l o J | ." o gcuwtf"cv"vjg"E/X4Z"fgxkeg"0⁴³⁶"J q y g x g t."KVU"rtqrqpgpvu"qhhtg"vjcv"vjg"QQDG"nk o kvu"ecp"dg"tgnzczgf"cu"nqpi"cu"W/PKK/6"fgxkegu"ctg"tguvkevgf"vq"kp f q q t / q p n {"wug"0⁴³⁷"7 I C C"cpf"Ekueq"ugrctevgn{"uvcvg"vjcv"kh"W/PKK/6"dcpf"qrgtcvkqpu"ctg"tguvkevgf"vq"kp f q q t / q p n {"wug."vjg"vjg"QQDG"nk o kvu"eqwnf"dg"tgnzczgf"vq"2"fd o l o J | "cv"70: ; 7" I J | ." f g e t g c u k p i " n k p g c t n {" v q "/ 3 9 " f d o l o J | " c v " q t " c d q x g " 7 0 ; 2 7 " I J | 0⁴³⁷"S w e n e q o o " c u u g t v u " v j c v " 7 I C C u " u w i " i g u v g f " c r r t q c e j " y q w n f " r t q r q g u f " E / X 4 Z " F k t g e v " q r g t c v k q p u " k p " v j g " w r r g t " 5 2 " o g i c j g t v | " q h " v j g " 7 0 ; " I J | " d c p f " y j k n g " g p c d n k p i " t q d w u v " y k f g d c p f " w p n k e g p u g f " q r g t c v k q p u " k p f q q t u . " y j g t g " c n o q u v " c m n " w p n k e g p u g f " Y k / H k " q r g t c v k q p u " q e e w t " v q f c { 0 " S w e n e q o o " u v c v g u " v j c v " t g u v k e v k p i " W / P K K / 6 " q r g t c v k q p u " v q " k p f q q t " w u g " y q w n f " c m n q y " v j g " E q o o k u u k a p " v q " c f q r v " c " o q t g " t g n c z g f " o c u m " h q t " W / P K K / 6 " q r g t c v k q p u " v j c p " y j c v " k u " p g g f g f " q w f q q t u " v q " r t q r q g u f " E / X 4 Z " F k t g e v " d g e c w u g " v j g " k p f q q t " w p n k e g p u g f " u k i p c n u " y q w n f " d g " c v g p w c v g f " d { " d w k n f k p i " g p v t { " n q u u " 0⁴³⁸

:40⁴³⁸ Rtqrqpgpvu"qh"wpnkegpugf"qrgtcvkqpu"qr rqug"vjg"rtqrqguf"/49"fd o l o J | "QQDG"nk o kv"cv"

⁴³³ See 5.9 GHz NPRM."56"HEE"Tef"cv"34845."rctc"0"760"Wpfgt"vjg"Eq o o kuukqpou"ewttgpn"twngu."g o kuukqpu"htq o "vtcpu okvgtq"qrgtcvkpi"kp"vjg"W/PKK/5"dcpf"ctg"nk o kvgf"vq"cnxgn"qh"/49"fd o l o J | "cv"97"o g i c j g t v | "q t " o q t g " c d q x g " q t " d g n q y " v j g " d c p f " g f i g " k p e t g c u k p i " n k p g c t n {" v q " 3 2 " f d o l o J | " c v " 4 7 " o g i c j g t v | " c d q x g " q t " d g n q y " v j g " d c p f " g f i g . " c p f " h t q o " 4 7 " o g i c j g t v | " c d q x g " q t " d g n q y " v j g " d c p f " g f i g " k p e t g c u k p i " n k p g c t n {" v q " c " n g x g n " q h " 3 7 0 8 " f d o l o J | " c v " 7 " o g i c j g t v | " c d q x g " q t " d g n q y " v j g " d c p f " g f i g . " c p f " h t q o " 7 " o g i c j g t v | " c d q x g " q t " d g n q y " v j g " d c p f " g f i g " k p e t g c u k p i " n k p g c t n {" v q " c " n g x g n " q h " 4 9 " f d o l o J | " c v " v j g " d c p f " g f i g " 6 9 " E H T " E " 3 7 0 6 2 9 * d + * 6 + * k + 0 " V j g u g " u r g e k h k e c v k q p u " t g u w n v " k p " Q Q D G " n k o k v u " q h " / 7 " f d o l o J | " c v " 7 0 : ; 7 " I J | . " f g e t g c u k p i " n k p g c t n {" v q "/ 4 9 " f d o l o J | " c v " 7 0 ; 4 7 " I J | 0

⁴³⁴ 5.9 GHz NPRM."56"HEE"Tef"cv"34845."rctc"0"770"

⁴³⁵ 5.9 GHz NPRM."56"HEE"Tef"cv"34485/86."rctc"0"780"

⁴³⁶ I O "Eq o o gpvu"cv"33="Vq { qvc"Eq o o gpvu"cv"3: ="Ect"4"Ect"Eq o o gpvu"cv"3: ="KGGG"382; "Yqtmkpi" I tqwr"Eq o o gpvu"cv"37."WU"Vgejpkcn"Cfxkuqt{" I tqwr"Eq o o gpvu"cv"33="Xqnmuyci"gp"Eq o o gpvu"cv";="cpf"htq"Eq o o gpvu"cv"32"

⁴³⁷ 7 I C C "Eq o o gpvu"cv"66="Ekueq"Eq o o gpvu"cv"37/38="see also Cnnkpeg"htq" Cwvq o qvixg"Kppqxcvqkq" Pqx"0"320"4242" Ex Parte cv"3/40"

⁴³⁸ Sweneq o o "Eq o o gpvu"cv"3; 0"

vjg"wr rgt"gp f"qh"vjg"W/PKK/6" dcpf0"Vjg{"eqpvpgf"vjcv"vjku"nk o kv"y qwnf"pgeguukvcvg"nqy"vtcpu o kv"rqygt"
ngxgnu"htq"cmn"fgxkegu"qrgtcvkpi"kp"vjg"W/PKK/6" dcpf."vjgtdg{"uki pkhkecpw{"tgfwepki"qt"gxgp"gnk o kpcvkpi"vjg"
rquukdkkv{"qh"wpnkegpugf"fgnq{"ogpvu"kp"vjg" dcpf."gurgekcmn{"ykvj"y kfgt/dcpf y kf vj"qrgtcvkqp."y jkej"ku"
kpvpgf"vq"dg"c" rtk o ct {"dgpghkv"qh"vjg"rtqrugf"fgukipcvkqp0439"Kpuvgcf."wpnkegpugf"rtqrpgpvu"uwi iguv"
o qtg"tgnczgf"QQDG"nk o kvu"htq"wpnkegpugf"qrgtcvkpu"kp"vjg"W/PKK/6" dcpf"vjcp"rtqrugf"kp"vjg"5.9 GHz
NPRM0"YKURC"uwd o kvu"vjcv"kp fqqt"wpnkegpugf"qrgtcvkpu"eqwnf"jcxg"c"/7" fD o l O J |"QQDG"nk o kv"cv"qt"
cdq xg"70: ; 7" I J | 043:"Dtqcfeq o."EcdngNcd u."Hcegdqqm."cpf"PEVC"vq igv jgt"uwi iguv"vjcv"vjg"QQDG"htq"
kp fqqt"wpnkegpugf"qrgtcvkpu"dg"nk o kvf"vq"9" fD o l O J |"cv"70: ; 7" I J |."fgetgcukpi"nkp gctn{"vq"/;" fD o l O J |"
cv"70; 47" I J |."o gcuwtgf" wukpi"vjg"tqqv"o gcp"uswctg"o gvjqf043:"Vjg"Yk/Hk" Cmnkpege"uwi iguvu"37"
fD o l O J |"QQDG"nk o kvu"htq"kp fqqt"wpnkegpugf"fgxkegu"cv"70: ; 7" I J |."fgetgcukpi"nkp gctn{"vq"/9" fD o l O J |"
cv"70; 47" I J | 0442"Vjg"Yk/Hk" Cmnkpege"eqpvpgf"vjcv"chvgt"dwknfkpi"cvpgpwcvkqp"cpf"uki pcn"rcvj"nquugu"ctg"
ceeqwvpgf"htq."vjgug"QQDG"nk o kvu"y qwnf"o kttqt"vjg"gzkuvkpi"W/PKK/5"QQDG"nk o kvu"cv"cpf"cdq xg"70: ; 7"
I J |."y jkej"y qwnf"cmnq"y"W/PKK/6" fgxkegu"vq"rtqxfg"rtqvgevkp"vq"KVU"ugt xkegu"kp"vjg"cf lcegpv"urgetw o"
gxgp"ykvj"QQDG"ngxnu"42" fD jki jgt"vjcp"vjqug"ewtgpw{"tgs wktgf"htq"W/PKK/5" fgxkegu0443"Yk/Hk"
Cmnkpege"cnuq"uwr rqtu"cr rn{kpi"vjg"gzkuvkpi"W/PKK/5"QQDG"nk o kvu"cv"vjg"nqygt"gf ig"qh"vjg"W/PKK/5" dcpf"
htq"W/PKK/6" fgxkegu."qt"fgxkegu"vjcv"qrgtcvg"cetquu"c"ukping"ejcpgn"vjcv"urcpu"vjg"W/PKK/5"cpf"W/PKK/6"
dcpfu."k0g0."cv"70947" I J |."y jkng"pqv"ko r qkpi"cp{"QQDG"nk o kv"htq"W/PKK/6" fgxkegu"cv"vjg"W/PKK/51W/PKK/
6" dcpf"gf ig" *k0g0."cv"70: 72" I J | +0444

:504 Vjg"Eq o o kuukqp"rtgxkwun{"chhkt o gf"vjcv"vjg"W/PKK/5"QQDG"nk o kvu"rtqvgev" FUTE"
qrgtcvkpu."cpf"vjqug"nk o kvu"jcxg"rtq xgp"vq"dg"ghhgevkvxg"htq"vjg"rtqvgevkp"qh"kpew o dgpv"qrgtcvkpu"kp"vjg"
70; I J |"dcpf0445"Vjwu."y g"y knn"ko rqug"vjg"uc o g"ngxgn"qh"rtqvgevkp"htq o"W/PKK/6" fgxkegu0" J qy gxgt."kp"
fqkpi"uq."y g"y knn"vcmg"cf xcpvc ig"qh"dwknfkpi"cvpgpwcvkqp."cu"y gnn"cu"qvjgt" hcevqtu."vq"rtqxfg" hngzkdknkv {"
cpf"o czk o w o" wvknkv {"vq" C o g tkecp"eqpuw o gtu0"Vjku" hngzkdknkv {"ecp"dg"rtqxfgf" d {"cf qrvkpi"Yk/Hk"
Cmnkpegeu"rtqrugf"kp fqqt"wpnkegpugf" fgxkeg"QQDG"nk o kvu"qh"37" fD o l O J |"cv"70: ; 7" I J |."fgetgcukpi"
nkp gctn {"vq"/9" fD o l O J |"cv"70; 47" I J | 0"Vjg"tgeqt f"uwr rqtu"vjgug"rtqvgevkp"ngxnu."y jkej"ctg"vjg"uc o g"cu"
vjg"ewtgpv"QQDG"nk o kvu"chvgt"ceeqwvkvpi"htq"dwknfkpi"cvpgpwcvkqp0"Yg" hwtv jgt"gzrgev"vjg"ugrctcvkqp"
fkuvcege"dg v y ggp"kp fqqt"W/PKK/6" fgxkegu"cp f"KVU"qrgtcvkpu"y qwnf" hwtv jgt"ko r tqxg"vjg"QQDG"nk o kvu"
eq o rctgf"vq"vjg"gzkuvkpi"W/PKK/5"QQDG"nk o kvu0"Yg"ctg"pqv"rgtuwcf gf"vjcv"vjg"o qtg"tguvkevkxg"QQDG"
nk o kvu"uwi iguvgf" d {"KVU"rtqrpgpvu"ctg"pggf gf"vq"rtqvgev" FUTE"qrgtcvkpu"ukpeg"vjqug"nk o kvu"ctg"o qtg"
tguvkevkxg"vjcp"vjg"W/PKK/5"QQDG"nk o kvu."y jkej"vjg"Eq o o kuukqp"rtgxkwun {"chhkt o gf"y qwnf"rtqvgev"
FUTE"qrgtcvkpu0446"Yg"ctg"cnuq"pqv"rgtuwcf gf"vjcv"vjg"o qtg"tgnczgf"QQDG"nk o kvu"uwi iguvgf" d {"

439" See, e.g., "Dtqcfeq o."Kpe0"cpf"Hcegdqqm."Kpe0"Eq o o gpvu"cv"7/8="F {pc o ke"Urgetw o" Cmnkpege"Eq o o gpvu"cv"6=" Yk/
Hk" Cmnkpege"Eq o o gpvu"cv"8/90"

43: YKURC"Eq o o gpvu"cv"80"

43: "Ngwgt"htq o"Ej tku"U | { o cpumk."Dtqcfeq o="Tqd"Cnfgthgt."EcdngNcd u="Cncp"Pqt o cp."Hcegdqqm."cpf" Fcpkgnng"
Rk o gtgu."PEVC."vq"Octngpg"J 0" Fqtvej."Ugetvcvt {.HEE."GV" Fqemv" Pq03; /35: "hkngf"Lwn {"53."4242+"Eq o r tq o kug"
Rtqrucn"Ngwgt+"cv"60"

442" Yk/Hk" Cmnkpege"Eq o o gpvu"cv": 0"

443" Yk/Hk" Cmnkpege" Tgrn {"cv"9/: 0"7 I C C"fkuci tggv"ykvj"vjg"Yk/hk" Cmnkpegeu"rtqrugf" g o kuukqp"o cum."cuugt vki"vjcv"
pqv"cmn"dwknfkpi u"gzj kdkv"42" fD"qh"cvpgpwcvkqp"nquu0"7 I C C" Pqx0"; .4242" Ex Parte" cv"50"

444" Yk/Hk" Cmnkpege"Eq o o gpvu"cv"4/50"

445" See Revision of Part 15 of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-
NII) Devices in the 5 GHz Band."Hktuv" Tgrqtv"cpf"Qtfgt."4; "HEE" Tef"6349*4236+*UNII 5 GHz Report and Order+
*c f fkp i"70: 47/70: 72" I J |"vq"vjg"70947/70: 47" I J |" *W/PKK/5+ "dcpf"cpf" fghgttkpi" c" fgekukqp"qp"y jgvjgt"vq"cmnqy"
wpnkegpugf" fgxkegu"vq" wug"vjg"70572/70692" I J |"W/PKK/4D"cpf"70: 72/70: 47" I J |"W/PKK/6" dcpfu+."recon. denied-
Revision of Part 15 of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-NII)
Devices in the 5 GHz Band."O g o qtcpfw o" Qr kpkp"cpf"Qtfgt."53"HEE" Tef"4539."4546." rctcl"45*4238+0"

446" Revision of Part 15 of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-NII)
Devices in the 5 GHz Band."O g o qtcpfw o" Qr kpkp"cpf"Qtfgt."53"HEE" Tef"4539."4546." rctcl"45*4238+0"

wpnkegpugf"rtqrqpgpvu"yqwnf"cf gswcvgn{"rtqvgeV"KVU"qrgtcvkqpu"htq o " jct o hwn"kpvgthgtgpeg"ukpeg"vj qug" nk o kvu"ctg"nguu"tguvtkevxg"vj cp"vj g"gzkuvkpi "W/PKK/5"QQDG"nk o kvu"0" Pq"eq o o gpvgt"fkuc i tggf"y kvj"qwt" rtrqrucnu"vq"cr rn{"vj g"gzkuvkpi "W/PKK/5"QQDG"nk o kvu"cv"vj g"nq ygt"gf i g"qh"vj g"W/PKK/5"dcpf"htq"W/PKK/6" fgxkegu."qt"fgxkegu"vj cv"qrgtcvg"cetquu"cu"ukpi ng"ej cppgn"vj cv"urcpu"vj g"W/PKK/5"cpf"W/PKK/6"dcpfu."k0g0."cv" 70947" I J |." y jkng"pqv"ko rqukpi "cp{"QQDG"nk o kvu"htq"W/PKK/6"fgxkegu"cv"vj g"W/PKK/51W/PKK/6"dcpf"gf i g." k0g0."cv"70: 72" I J |0"V jgug"nk o kvu"y knn"rtqvge"cf lcegpv/dcpf"KVU"qrgtcvkqpu"htq o " jct o hwn"kpvgthgtgpeg"fwg" vq"wpnkegpugf"qrgtcvkqpu"kp"vj g"W/PKK/6"dcpf" y jkng"cuuq"uw r rqtvkpi "ugrctcvg"W/PKK/5"cpf"W/PKK/6"dcpfu"0" V jgug"nk o kvu"y knn"rtqxkf g"hgzkdknkv {"vq"fgukip"W/PKK/5"gs wkr o gpv"wpfgt"vj g"nguu"uvtkpi gpv"QQDG"twngu"cv" vj g"wr rgt"gf i g"qh"vj g"dcpf"cu"y gnn"cu"htq"fgxkegu"vq"qrgtcvg"cetquu"vj g"W/PKK/5"cpf"W/PKK/6"dcpfu"wkupi " vj g"y kfguv"ej cppgn"dcpf y kf vj u"rgt o kvgf"wpfgt"vj g"KGGG": 24033"uvcpfctf"0" Y g"vj gthgtg"cf qrv"vj qug" nk o kvu"vqq0"

: 60A Measurement procedures."Hkpcmn{."y g"cf ftguu"vj g" o gcuwtg o gpv"rtqegfwtgu"htq"70;" I J |" wpnkegpugf"fgxkegu"0"Dtqcf eq o."EcdngNcdu."Hcegdqgm."cpf"PEVC"uvcvg"vj cv"vj gkt"rtqrqugf"QQDG"xcnwg u"j qwnf"dg" o gcuwtg"wkupi "c"tqqv" o gcp"uswctg"TOU" o gcuwtg o gpv"0"V jgug"rctvkgu"eqpvpgf"vj cv"cp"TOU" cxgtcig" o gcuwtg o gpv"ku"vj g" o quv"cr rtrrktcvg" o gvj qf"vq"gpwgt"rtqvgevkp"htq"cf lcegpv"qrgtcvkqpu."cu"vj g" Eq o o kuukqp"hqwpf"kp"vj g"8" I J |"rtqeggfkip"0"V jg{"uk o knctn{"enck o"vj cv."ukpeg"7 I CC"ci tggf"vj cv"TOU" o gcuwtg o gpv"y cu"vj g"cr rtrrktcvg"cr rtrtcej"cv"vj g"vqr"qh"vj g"70;" I J |"dcpf."kv"ku"nkm g y kug"cr rtrrktcvg"htq" vj g"dqvwq o"qh"vj g"70;" I J |"dcpf"0447" Y KURC"uud o kvu"vj cv"wkupi "cp"TOU"0k0g0."cxgtcig" o gcuwtg o gpv"htq" gpwtkpi"QQDG"htq o "wpnkegpugf"qrgtcvkqpu"cv"vj g"70; 47" I J |"dcpf"gf i g"uj qwnf"pqv"ecwug"jct o hwn" kpvgthgtgpeg"vq"hgfgtcn"wgutu"qt"kpew o dgpv"nkegpuggu"0" Y KURC"cti wgu"vj cv"rgcm/jqnf" o gcuwtg o gpvu."y jkej" tguwnv"kp"uki pcn"ngxgnu"vj cv"ctg" i gpgtcn{"dgv y ggp"32"cpf"42"fd"jki jgt"vj cp"vj g"TOU" o gvj qf."ctg"nguu" fg o qpvtcvkxg"qh"vj g"cewcn"rqvpgvkn"htq"ecwukpi "jct o hwn"kpvgthgtgpeg"0" Y KURC"eqpvpgfu"vj cv"cnvjqwi j" hgfgtcn"tcfkqncevkp"u"uv g o u"qrgtcvg"kp"vj g"70: 72/70; 47" I J |"dcpf."vj qug"qrgtcvkqpu"ctg"kp/dcpf"cpf" rtrqvgevgf"d"vj g" i gqi tcr jke"rtqjkdvkqp"qp"qrgtcvkp"pgct"vj g o"0" Y KURC"hwvtjgt"eqpvpgfu"vj cv"vj g"TOU" o gcuwtg o gpv"ku" o qtg"cr rtrrktcvg"htq"fgvgt o kpkpi "rqvpgvkn"kpvgthgtgpeg"dqvj"vq"KVU"u"uv g o u"cpf"vq"rctv" 323"hzg f"u"uv g o u"qrgtcvkpi "cdq xg"70; 47" I J |0448" PEVC"uwi i guvu"vj cv"QQDG"nk o kvu"uj qwnf"dg"xtghkfg" wkupi "cp"TOU"fgvgevt"qt"qvjgt"cr rtrrktcvg"vgej pks wgu"htq" o gcuwtkpi "cxgtcig"rq ygt."cu"vj g"Eq o o kuukqp" tgeqipk"igf"kp"vj g"6 GHz Report and Order."dgecwug"7" I J |"W/PKK/dcpf" o gcuwtg o gpv"i wkfcpeg"urgek h"kp i" rgcm"rq ygt"y cu"kpukvvgf"vq" o kvki cvg"cmpp y p"kpvgthgtgpeg"kuuwg"y kvj"hgfgtcn"tcfctu"vj cv"ku"pqv"rtgugpv"kp" vj g"70;" I J |"dcpf"0449"

: 70A Cp"TOU"fgvgevt" o c{"dg"wguf"vq"eqpfwev"70;" I J |"wpnkegpugf"fgxkeg"QQDG" o gcuwtg o gpvu"0"V jku"fggekukp"ku"eqpukvpgv"y kvj"vj g"fggekukp"kp"vj g"6 GHz Report and Order"vj cv"vj g" QQDG"nk o kv"cf qrvvgf"vq"rtqvge"cf lcegpv"KVU"ugtxkegu"cv"vj g"vqr"qh"vj g"70;" I J |"dcpf"uj qwnf"dg"xtghkfg" wkupi "cp"TOU"fgvgevt"qt"qvjgt"cr rtrrktcvg"vgej pks wgu"htq" o gcuwtkpi "cxgtcig"rq ygt"044:" Y g"y knn"rtqxkf g" i wkfcpeg"vq"vj g"vguv"ncdu"cpf"vgngeq o o wpkecvkqpu"egtkhkecvkq"dqfkgu"y jkej"eqpfwev"gs wkr o gpv"cr rtrrktcvg" o gcuwtg o gpvu"cpf"gs wkr o gpv"cr rtrrktcvg"vgej pks wgu"htq" o gcuwtkpi "TOU" o gcuwtg o gpvu"tgr tguvpg"vj g"eqpvkpwqu" r q ygt"dgkpi " i gpgtcvgf"htq o "c"fgxkeg."cu"qr rqugf"vq"rgcm"rq ygt."y jkej" o c{"qna{"dg"tgcj g"qecukqpcn{" cpf"htq"uj qvt"vrgtkfu"qh"vk o g."y g"dgngxg"cp"TOU" o gcuwtg o gpv"ku" o qtg"cr rtrrktcvg"htq"gpwtkpi "vj cv"W/ Pkk"fgxkegu"rqvpgvkn"htq"ecwukpi "jct o hwn"kpvgthgtgpeg"vq"cf lcegpv/dcpf"qrgtcvkqpu"ku"uk i pkhkecpvn {" o kpk o k"igf"0" Y g"pqv"vj g"Eq o o kuukqp"j cu"rtqxkf g" c" o gcuwtg o gpv"i wkfcpeg"kp"vj g"rcuv"htq"uk o knct"

447"Ngwgt"htq o "Ejtku"U | { o cpunk."Dtqcf eq o ="Tqd"Cnfgthgt."EcdngNcdu="Cncp"Pqt o cp."Hcegdqgm="cpf"Fcpgkngg" Rk"ogtu."PEVC."vq"Octngpgg"J"0"Fatvej."Ugetgvct{."HEE."GV"fqemvg"pq"03;/35:."cv"6/7."p038"hlkngf"Lwn{"53."4242+" *Compromise Proposal Letter+"ekvki"vj g"6 GHz Report and Order."57"HEE"Tef"cv"5; 48."rctc"03; :."vj cv"fgkfgf"vj g" /49"fd o l o J |"QQDG"nk o kv"cf qrvvgf"vq"rtqvge"cf lcegpv"KVU"ugtxkegu"cv"vj g"vqr"qh"vj g"70;" I J |"dcpf"uj qwnf"dg" xgtghkfg"wkupi "cp"TOU"fgvgevt"qt"qvjgt"cr rtrrktcvg"vgej pks wgu"htq" o gcuwtkpi "cxgtcig"rq ygt"0"

448"See"ngwgt"htq o " Y KURC"vq"Octngpgg"J"0"Fatvej."Ugetgvct{."HEE."cv"4"49."4242+0"

449"See PEVC"Trgn{"cv"82."p0458="see also 6 GHz Report and Order."57"HEE"Tef"cv"5; 48."rctc"03; :."

44:"6 GHz Report and Order."57"HEE"Tef"cv"5; 48."rctc"03; : 0"

fgxkegu"kp"vjg"7" I J | "dcpf" y jgtg" c" r gcm" o gcuwtg o gpv"ku"urgekkgf044;" J qy gxtg."v jcv" r t q e g f w t g" y c u" k p u k v w v g f" v q" o k v k i c v g" r q v g p v k c n" k p v g t h g t g p e g" y k v j" v g t o k p c n" F q r r n g t" y g c v j g t" t c f c t u" y j k e j" c t g" p q v" r t g u g p v" k p" v j g" 70; " I J | " d c p f 0" " Y g" y k n n" w r f c v g" q w t" M p q y n g f i g" F c v c d c u g" i w k f c p e g" e q p u k u v g p v" y k v j" v j k u" f g e k u k a p 0"

b. Outdoor Unlicensed Operations

: 80A C n v j q w i j" y g" c t g" p q v" r g t o k v k p i" q w v f q q t" w p n k e g p u g f" q r g t c v k q p u" c e t q u u" v j g" 70: 72/70: ; 7" I J | " r q t v k q p" q h" v j g" 70; " I J | " d c p f" c v" v j k u" v k o g." y g" p q p g v j g n g u u" y k n n" c n n q y" n k o k v g f" q w v f q q t" q r g t c v k q p u" * q p" c" p q p/ k p v g t h g t g p e g" d c u k u" v j t q w i j" g k v j g t" v j g" U V C" q t" q v j g t" g z k u k p i" t g i w n c v q t { " r t q e g u u g 0" " V j g" E q o o k u u k a p" y k n n" e q q t f k p c v g" t g s w g u v" h q t" q w v f q q t" w p n k e g p u g f" q r g t c v k q p u" y k v j" P V K C." w p v k n" u w e j" v k o g" c u" K V U" q r g t c v k q p u" y k n n" j c x g" e g c u g f" q r g t c v k p i" k p" v j g" 70: 72/70: ; 7" I J | " r q t v k q p" q h" v j g" 70; " I J | " d c p f" c p f" y g" f g x g n q r" c" o g e j c p k u o" v q" g p u w t g" r t q v g e v k q p" q h" h g f g t c n" q r g t c v k q p u 452"

2. Protection of Other Incumbents in the 5.850-5.895 GHz Band

: 90A V j g" 70; " I J | " d c p f" c n u q" e q p v k c p u" c m n q e c v k q p u" h q t" v j g" p q p/ H g f g t c n" H k z g f/ U c v g n k v g" U g t x k e g" * H U U + " * G c t v j/ v q/ u r c e g + " q p" c" r t k o c t { " d c u k u" c p f" v j g" C o c v g w t" U g t x k e g" q p" c" u g e q p f c t { " d c u k u" h q t" p q p/ h g f g t c n" w u g 0 453" " U k p e g" e g t v c k p" q h" v j g u g" u g t x k e g u" q r g t c v g" k p" v j g" 70: 72/70: ; 7" I J | " r q t v k q p" q h" v j g" 70; " I J | " d c p f." k p" v j g" H w t v j g t" P q v k e g" y g" r t q r q u g" r t q x k u k a p u" v q" g p u w t g" v j c v" v j g u g" u g t x k e g u" c t g" r t q v g e v g f" h t q o" j c t o h w n" k p v g t h g t g p e g" h t q o" v j g" q w v f q q t" q r g t c v k q p" q h" w p n k e g p u g f" f g x k e g u" k p" v j g" 70: 72/70: ; 7" I J | " d c p f 0"

a. Fixed-Satellite Service Operations

: : 0A K p" v j g" 5.9 GHz NPRM." y g" r t q r q u g f" p q v" v q" c f q r v" c p { " t g u v t k e v k q p u" q p" W/ P K K/ 6" f g x k e g u" v q" c e e q w p v" h q t" v j g" g z k u k p i" H U U" w r n k p m" q r g t c v k q p u" d g e c w u g" v j g" g z r g e v g f" w p n k e g p u g f" f g x k e g" w u g" e c u g u." y j k e j" r t k o c t k n { " k p x q n x g" f g n k x g t { " q h" Y k/ H k" u k i p c n u." c n q p i" y k v j" v j g" f k u v c p e g" v q" H U U" u c v g n k v g u" k p" i g q/ u v c v k p c t { " q t d k v." u j q w n f" r t q v g e v" H U U" w r n k p m" q r g t c v k q p u" h t q o" j c t o h w n" k p v g t h g t g p e g 0" " P g x g t v j g n g u u." v j g" E q o o k u u k a p" u q w i j" v" e q o o g p v" q p" y j g v j g t" c p { " v c t i g v g f" t w n g u" y g t g" p g g f g f" v q" g p u w t g" v j c v" k p e w o d g p" H U U" w r n k p m" q r g t c v k q p u" c t g" r t q v g e v g f" c p f." k h" u q." y j c v" v { " r g u" q h" u j c t k p i" v g e j p q n q i { " q t" v g e j p k s w g u" y q w n f" d g" c r r t q r t k c v g" c p f" y j c v" c t g" v j g" k o r n k e c v k q p u" h q t" o c p w h c e v w t g t u." x g p f q t u." c p f" e q p u w o g t u 0 454"

: ; 0A U G U" C o g t k e q o" c p f" K p v g n u c v." y j q" r t q x k f g" h k z g f" u c v g n k v g u" u g t x k e g u" t g n { k p i" q p" v j g" 70; " I J | " d e p f" h q t" w r n k p m u." g z r t g u u" e q p e g t p u" c d q w v" v j g" r q v g p v k c n" h q t" j c t o h w n" k p v g t h g t g p e g" v q" H U U" u r c e g" u v c v k q p u" h t q o" c i i t g i c v g" w p n k e g p u g f" q r g t c v k q p u" c p f" t g s w g u v" v j c v" v j g" E q o o k u u k a p" c f q r v" c" o c z k o w o" r g t o k u u k d n g" c i i t g i c v g" r q y g t" n k o k v" v j c v" y q w n f" d g" o q p k v q t g f" c p f" e q p v t q n n g f" d { " c p" C w w q o c v k e" H t g s w g p e { " E q q t f k p c v k q p" * C H E + " u { u v g o 0 455" " Y j k n g" U G U" C o g t k e q o" c p f" K p v g n u c v" k p f k e c v g" c" i g p g t c n" e q p e g t p" c d q w v" r q v g p v k c n" j c t o h w n" k p v g t h g t g p e g." k p e n w f k p i" c i i t g i c v g" k p v g t h g t g p e g." h t q o" n q y/ r q y g t" f g x k e g u" f w g" v q" v j g" r q v g p v k c n" v j c v" v j g" n c t i g" i g q i t c r j k e" e q x g t c i g" q h" c" u c v g n k v g" t g e g k x g t o u" d g c o" e q w n f" u g g" n c t i g" p w o d g t u" q h" w p n k e g p u g f" f g x k e g u. 456" v j g { " f q" p q" k p e n w f g" c p { " u r g e k h k e" v g e j p k e c n" c p c n { u k u" q t" o c z k o w o" c i i t g i c v g" r q y g t" n g x g n" h q t" v j g k t" r c t k e w n c t" r q u k v k a p 0" " U G U" C o g t k e q o" c p f" K p v g n u c v" u w i i g u v" v j c v." c v" c" o k p k o w o." v j g" E q o o k u u k a p" u j q w n f" n k o k v" v j g" G K T R" q h" v t c p u o k u u k a p u" h t q o" 70; " I J | " v g t t g u v t k c n" f g x k e g u" c d q x g" c" 52/ f g i t g g" g n g x c v k q p" c p i n g" v q" r t q v g e v" H U U"

44: "See" MFD" Rwdnkecvkqp" Pq0"9: ; 2550"

452: "Dgecwug" y g" u g g m" e q o o g p v" k p" v j g" H w t v j g t" P q v k e g" q p" j q y" v q" r t q v g e v" h g f g t c n" t c f k n q e c v k q p" q r g t c v k q p u" k p" v j g" W/ P K K/ 6" d e p f" h t q o" j c t o h w n" k p v g t h g t g p e g" h t q o" q w v f q q t" w p n k e g p u g f" f g x k e g u." k p e n w f k p i" v j t q w i j" P V K C" t g e q o o g p f g f" g z e n w u k a p" | q p g u." v j g" E q o o k u u k a p." c d u g p v" e q o r g n k p i" f g o q p u v t c v k a p" q h" j q y" u w e j" q r g t c v k q p u" y q w n f" p q v" e c w u g" u w e j" j c t o h w n" k p v g t h g t g p e g" c p f" u w d l g e v" v q" e q q t f k p c v k q p" y k v j" P V K C." y k n n" p q v" i t c p v" c p { " k p v g t k o" t g s w g u u" * v j t q w i j" y c k x g t." U V C." q t" q v j g t" t g i w n c v q t { " r t q e g u u" v q" g p i c i g" k p" w p n k e g p u g f" q r g t c v k q p u" q w v f q q t u" y k v j k p" v j g" g z e n w u k a p" | q p g u" P V K C" j c u" r t q r q u g f 0" " S e e" P V K C" U g r v 0": . 4242" N g w g t c v" V d n 0" 40"

453: "69" EHT" E" 403280"

454: "See 5.9 GHz NPRM." 56" HEE" Tef" cv" 34846." rctc0"7: 0"

455: "UGU" C o g t k e q o" c p f" K p v g n u c v" E q o o g p v u" c v" 6." : / ; 0"

456: "UGU" C o g t k e q o" c p f" K p v g n u c v" E q o o g p v u" c v" 60"

pgv y qtmu⁴⁵⁷"

;20A PEVC"eqpvppfu"vjcv"urgekcn"htgswgpe{"cxqkfcpeg"vgejpkswgu"qt"uk o knct"eqpuvtckpvu"ctg" wppgeguuct{"vq"rtqvgev"kpew o dgpvu."cpf"ucvvgu"vjcv"vjg"Eq o o kuukqp"ujqwnf"pqv"k o rqug"eqpuvtkevkg" qrgtcvkqpcn"twngu"hqt"W/PKK/6"qrgtcvkqpu."y jkej"y qwnf"ftc o cvkecnn{"fgetgcug"vjg"dcpfou"vwnkv{"ykvj"pq" qhhugvwpki"rwdnke"dgpghk⁴⁵⁸"Vjg"Yk/Hk"Cnnkcppeg"ci tgg"ykvj"vjg"Eq o o kuukqpou"vgpvckvkg"eqpenwukqp"vjcv" W/PKK/6"fgxkegu"y kmm"pqv"kpvgthgtg"ykvj"HUU"wrnkpm"qrgtcvkqpu="kv"eqpvppfu"vjcv"{"gctu"qh"qrgtcvkqpcn" gzrgtkgpeg"c o rn{"fg o qpuvtcvg"vjcv"nqy/rqygt"Yk/Hk"vtcpu o kuukqpu"rqug"pq"jct o hwn"kpvgthgtgpeg"r qvgpvkcn" vq"HUU"ucvgnkvg"wrnkpmu"kp"i gquvcvkqpcct{"qtdk⁴⁵⁹"YKURC"ci tgg"ykvj"vjg"Eq o o kuukqpou"lwf i o gpv"vjcv"pq" qv jgt"o vki cvkqp"o gcuwtgu"hqt"wpnkegpugf"fgxkegu"ctg"tgs wktgf"vq"rtqvgev"qv jgt"wuugu"kp"vjg"dcpfou"YKURC" cuugtvu"vjcv"vjg"eq o rcvkdng"vtcpu o kuukqp"ejctcevgtkvkeu"qh"vjg"cf lcegpv"cpf"eq/htgswgpe{"ugtxkegu"ujqwnf" cmmqy"dqvj"wpnkegpugf"fgxkegu"cpf"HUU"wrnkpm"qrgtcvkqpu"vq"qrgtcvg"uweeguuhwn{"ykvj"qvw"cp"jct o hwn" kpvgthgtgpeg"vq"gv jgt⁴⁵:"

;30A Eqpukfgtkpi"vjcv"vjg"HUU"ucvgnkvgu"tgegkxkpi"kp"vjg"70:72/70;47" I J|"dcpf"ctg"nk o kvgf"vq" i gquvcvkqpcct{"qtdkvu."cr r tqzk o cvgn{"57.:22"mknq o gvtu"cdqvg"vjg"gs wcvqt."y g"dgngkxg"kv"ku"wpnkmg{"vjcv" tgnckvxn{"nqy/rqygt"wpnkegpugf"fgxkegu"y qwnf"ecwug"jct o hwn"kpvgthgtgpeg"vq"vjg"urceg"ucvckqp"tgegkxgtu." gurgekcn{"ukpeg"uwej"fgxkegu"ctg"pq"gzrgevfg"vq"tc fkvq"uki phkcepv"rqygt"um{"yctf0"HWtjgt o qtg." fguk i pki"cpf"qrgtcvkpi"cp"CHE"u{uvg o "vq"wpfvteng"ci i tgi cvg"rqygt"nk o kv"o apkvqtkpi"kp"vjku"dcpf" y qwnf"dg"xgt{"eq o rngz."tgs wktkpi"vjg"CHE"u{uvg o "vq"mpqy"j qy"o wej"gpgti{"ku"dgkpi"g o kvgf"vq"gecj" rqtvkqp"qh"vjg"i gquvcvkqpcct{"cte"htg"gej"wpnkegpugf"fgxkegu"Vjg"kv"vwtp."y qwnf"tgs wktgf"vjg"CHE"u{uvg o "vq"jcxg"mpqyngfi g"qh"gej"qvwfqq"ceeguu"r qkvou"cpvppc"rcwgtp."qtgpcvkqp."cevwn"vtcpu o kv"rqygt" ngxnu."cpf"rgtegpv"qh"vk o g"kv"vtcpu o kvu"cu"y gmm"cu"uk o knct"kpht o cvkqp"ht"wpnkegpugf"enkpv"fgxkegu" qrgtcvkpi"qvwfqqtu"Yg"eqpenwfg"vjcv"cp"CHE"u{uvg o "ykvj"vjku"ngxgn"qh"eq o rngzkv{"y qwnf"dg" gzvctqf"fkpctk{"dwtfgpu o g"vq"fguk i p"cpf"qrgtcvg"cpf"ku"pqv"tgs wktgf"vq"gpwgt"vjcv"HUU"urceg"ucvckqp" tgegkxgtu"ctg"rtqvgevfg"htq o "jct o hwn"kpvgthgtgpeg"Vjg"wu."y g"fgenkpg"vq"cfqr"UGU"C o gtkeq o ou"cpf" kpvgncvou"uwi i guvkqp"htq"cp"ci i tgi cvg"rqygt"nk o kv"htq o "wpnkegpugf"fgxkegu"vq"dg"ghqtegf"vjqwi j"wuq"qh" cp"CHE"u{uvg o "Cu"c"r tgecwkqpcct{"o gcuwtg."j qy gxtg"cpf"vq"hwvtjgt"rtqvgev"HUU"qrgtcvkqpu."y g"rtqrqug" kp"vjg"HWtjgt"p qvkeg"vq"nk o kv"ceeguu"r qkvou"GTTR"cdqvg"52"fg i tgg"gnxcvkqp"cping"vq"43fD o ."cu" uwi i guvgf"d{"UGU"C o gtkeq o "cpf"kpvgncv."y jkej"ku"uk o knct"vq"y jcv"vjg"Eq o o kuukqp"cntgcf{"tgs wktgu"kp" vjg"W/PKK/3."W/PKK/7."cpf"W/PKK/9"dcpfu"vq"rtqvgev"HUU"qrgtcvkqpu"

b. Amateur Operations

;40A Kp"vjg"5.9 GHz NPRM."y g"vgpvckvgn{"eqpenwfgf"vjcv"qwt"rtqrqucn"vq"cr rn{"vjg"gzkvkpi" W/PKK/5"rqygt"twngu"vq"vjg"70:72/70.;7" I J|"dcpf"y qwnf"rtqvgev"eq/ejcppgn"ugeqpfct{"C o cvgwt"Ugtxkeg" qrgtcvkqpu"htq o "jct o hwn"kpvgthgtgpeg"cpf"uqwi j"v"eq o o gpv"qp"vjku"cr r tqcej0"Rtqrqpgpvu"qh"C o cvgwt" Ugtxkegu"eqpvpgf"vjcv"cwvjqt|kpi"wpnkegpugf"qrgtcvkqpu"kp"vjg"70;" I J|"dcpf"y kmm"ecwug"jct o hwn" kpvgthgtgpeg"vq"eq/ejcppgn"C o cvgwt"Ugtxkeg"qrgtcvkqpu⁴⁵:"J qy gxtg."vjg{"f q"pqv"kpawfg"cp"urgekhe" vgejpkcnc"pcnc"uku"htq"vjgkt"rctvkewnt"r qukvkp⁴⁵:"Vjgug"eq o o gpvgtu"uwi i guv"vjcv"vjg"Eq o o kuukqp"ujqwnf" cdcpfqp"kvu"rtqrqucn"vq"cwvjqt|g"wpnkegpugf"qrgtcvkqpu"kp"vjg"W/PKK/6"dcpf"vq"cxqkf"jct o hwn"kpvgthgtgpeg" vq"c o cvgwt"qrgtcvkqpu⁴⁶²"

;50A Yg"dgngkxg"vjcv"W/PKK"fgxkegu"qrgtcvkpi"kp"vjg"W/PKK/6"dcpf"y kmm"pqv"ecwug"jct o hwn" kpvgthgtgpeg"vq"c o cvgwt"qrgtcvkqpu"dgecwug"qh"vjg"tgnckvxn{"nqy"rqygt"ykvj"y jkej"W/PKK"fgxkegu"y kmm"

⁴⁵⁷"UGU"C o gtkeq o "cpf"kpvgncv"Tgrn{"cv"70"
⁴⁵⁸"PEVC"Eq o o gpvu"cv"680"
⁴⁵⁹"Yk/Hk"Cnnkcppeg"Eq o o gpvu"cv"70"
⁴⁵:"YKURC"Eq o o gpvu"cv"90"
⁴⁵:"See, e.g.."C o cvgwt"TCfkq"Go gti gpe{"Fvcv"Pgvy qtm"Eq o o gpvu"cv"5-"C o cvgwt"Vngxkukqp"Pgvy qtm"Eq o o gpvu"cv" 30"
⁴⁶²"C o cvgwt"Vngxkukqp"Pgvy qtm"Eq o o gpvu"cv"4-"Ucp"Dgtpctfkkp"Oketqy cxg"Uqekgv{"cv"80"

qrgtcvg"cu"eq o rctgf"vq" c o cvgwt"uvcvkqpu." y jkej "ctg" rgt o kwgfv"vq" qrgtcvg" y kvj "cu" o wej "cu" 307"m Y"*84" fD o + "rgcm" gpxgnqrg" r q y g t⁴⁶³ "Hwtvjgt o qtg. "cu" pqvgf" cdq xg. "vjg" C o cvgwt" Ugtxkeg" ku" cp" cmmqecvfg" ugtxkeg" vjcv" ku" gpvkvngf" vq" kpvgtgtgpeg" r t q v g e v k q p" y k v j k p" v j g" 7" I J | " u r g e v t w o . " y j g t g c u" W/ P K K" f g x k e g u" q r g t c v g" w p f g t" q w t" r c t v" 37" t w n g u" q p" v j g" e q p f k v k q p u" q h" p q v" e c w u k p i" j c t o h w n" k p v g t h g t g p e g" c p f" c e e g r v k p i" c p { " k p v g t h g t g p e g" h t q o " c p" c w v j q t k | g f" t c f k q" u v c v k q p⁴⁶⁴

; 60^A Eq o o g p v g t u" c n u q" q r r q u g" t g c m n q e c v k p i" v j g" n q y g t" 67" o g i c j g t v | " q h" v j g" 70; " I J | " d c p f" h t q o " v j g" C o c v g w t" U g t x k e g" v q" r c t v" 37" w p n k e g p u g f" q r g t c v k q p u⁴⁶⁵ " C u" c p" k p k v k c n" o c w g t. " r c t v" 37" w p n k e g p u g f" f g x k e g u" f q" p q" q r g t c v g" r w t u w c p v" v q" c p" c m n q e c v k q p u⁴⁶⁶ " V j w u. " k p" v j g" 5.9 GHz NPRM. " v j g" E q o o k u u k a p" f k f" p q v" r t q r q u g" v q" t g c m n q e c v g" v j g" n q y g t" 67" o g i c j g t v | " q h" v j g" 70; " I J | " d c p f" h t q o " v j g" C o c v g w t" U g t x k e g" v q" r c t v" 37" w p n k e g p u g f" q r g t c v k q p u" r t q r q u g f" v q" c w v j q t k | g" w p n k e g p u g f" q r g t c v k q p u" w p f g t" r c t v" 37" k p" v j g" n q y g t" 67" o g i c j g t v | " q h" v j g" 70; " I J | " d c p f⁴⁶⁷ " V j g t g h q t g. " y g" f k u o k u u" u e w e j" e q p e g t p u" c u" d g { q p f" v j g" u e q r g" q h" v j k u" r t q e g g f k p i" 0

C. ITS in the 5.895-5.925 GHz Band

; 70^A Vq" r t q o q v g" v j g" o q u v" g h h g e v k x g" c p f" g h h k e k g p v" w u g" q h" v j g" w r r g t" 52" o g i c j g t v | " q h" u r g e v t w o" k p" v j g" 70; " I J | " d c p f" v j c v" y g" f g f k e c v g" h q t" K V U. " y g" f g v g t o k p g" v j c v" v j g" u g t x k e g" u j q w n f" d g" d c u g f" q p" w u g" q h" q p g" v g e j p q n q i { . " c p f" y g" h w t v j g t" e q p e n w f g" v j c v" E / X 4 Z" v g e j p q n q i { " r t q x k f g u" v j g" d g u v" o g c p u" q h" c e j k g x k p i" q w t" i q c n u" h q t" K V U" k p" v j g" e q o k p i" { g c t u⁰ " k p" v j k u" H k t u v" T g r q t v" c p f" Q t f g t. " y g" r t q x k f g" u w h h k e k g p v" v g e j p k e c n" h n g z k d k n k { " v q" g p c d n g" K V U" n k e g p u g g u" e w t t g p v n { " w u k p i" F U T E / d c u g f" v g e j p q n q i { " v q" q r g t c v g" k p" v j k u" 52 / o g i c j g t v | " K V U" d c p f" w p v k n" v j g" v k o g" d { " y j k e j" K V U" u g t x k e g u" o w u v" q r g t c v g" w u k p i" E / X 4 Z" v g e j p q n q i { 0 " " D g e c w u g" y g" d g n g x g" v j c v" o c p { " * k h" p q v" o q u v + " q h" v j g" h g y" c e v k x g" K V U" n k e g p u g g u" y k n n" y c p v" v q" v t c p u k v k q p" v q" E / X 4 Z" v g e j p q n q i { " c u" u q q p" c u" r q u k d n g" v q" u r g g f" f g x g n q r o g p v" c p f" f g r n q { o g p v" q h" K V U" u g t x k e g u. " y g" c n u q" y k n n" r g t o k v. " v j t q w i j" q w t" y c k x g t" r t q e g u u. " v j g" f g r n q { o g p v" q h" E / X 4 Z" v g e j p q n q i { " f w t k p i" v j g" v t c p u k v k q p" r g t k f" k p" u w e j" c" y c { " v j c v" k v" y q w n f" p q v" k p v g t h g t g" y k v j" g z k u v k p i" F U T E / d c u g f" q r g t c v k q p u⁰ " H k p c m n { . " k p" v j g" H w t v j g t" P q v k e g" d g n q y. " y g" u g g m" e q o o g p v" q p" v j g" f c v g" d { " y j k e j" c m n" K V U" q r g t c v k q p u" k p" v j k u" d c p f" o w u v" w u g" E / X 4 Z / d c u g f" v g e j p q n q i { . " c u" y g m" c u" q p" v j g" h k p c n" v g e j p k e c n" t w n g u" h q t" E / X 4 Z" w u g" q h" v j g" 52" o g i c j g t v | " q h" u r g e v t w o" o" v j c v" r t q o q v g u" v j g" o q u v" g h h g e v k x g" K V U" q r g t c v k q p u" c p f" c r n k e c v k q p u" w u k p i" v j k u" u r g e v t w o" 0

1. ITS Operations using C-V2X Technology

; 80^A Kp" v j g" 5.9 GHz NPRM. " y g" r t q r q u g f" v q" c w v j q t k | g" E / X 4 Z" q r g t c v k q p u" k p" v j g" w r r g t" 42" o g i c j g t v | " q h" v j g" t g x k u g f" K V U" d c p f" * 70; 27 / 70; 47" I J | +. ⁴⁶⁸ " c p f" y g" u q w i j" v" e q o o g p v" q p" y j v g j g t" v j g" t g o c k p k i" 32" o g i c j g t v | " q h" v j g" d c p f" * 70: ; 7 / 70; 27" I J | + " u j q w n f" d g" f g f k e c v g f" h q t" E / X 4 Z" c u" y g m" q t" k p u v g c f" d g" t g u g t x g f" h q t" F U T E" q r g t c v k q p u⁴⁶⁹ " K p" r t q r q u k p i" v j g" w u g" q h" E / X 4 Z. " y g" u q w i j" v" v q" c w v j q t k | g" w u g" q h" v g e j p q n q i { " v j c v" y q w n f" d g" o q u v" e c r c d n g" q h" t c r k f" f g x g n q r o g p v" c p f" f g r n q { o g p v" q h" v t c p u r q t v c v k q p" c p f" x g j k e w n c t" u c h g v { / t g n c v g f" c r n k e c v k q p u" p q y" c p f" o c m k p i" e q p v k p w q u" k o r t q x g o g p v u" k p v q" v j g" h w w t g l⁰ " Y g" g z r n c k p g f" v j c v" E / X 4 Z" u j q w n f" d g" c d n g" v q" c e j k g x g" p g v y q t m" g h h g e v u" p g e g u u c t { " v q" o c z k o k | g" v t c p u r q t v c v k q p" c p f" x g j k e w n c t" u c h g v { / t g n c v g f" d g p g h k v u = " h c e k n k v c v g" t c r k f" f g x g n q r o g p v" c p f" f g r n q { o g p v = " g p c d n g" k o r t q x g o g p v u. " n g e t p k p i. " c p f" w r i t c f g u = " c p f" d g" t q d w u v" c p f" u g e w t g^{46:} " " C v" v j g" u c o g" v k o g. " y g" t g e q i p k | g f" v j c v" u q o g" e q o o g p v g t u" o k i j v" u w r r q t v" e q p v k p w g f" w u g" q h" v j g" F U T E / d c u g f" v g e j p q n q i { " k p" v j g" K V U" d c p f^{46:} " " Y g" h w t v j g t

⁴⁶³"69"EHT"È";90535*d+0"

⁴⁶⁴"69"EHT"ÈÈ"40328."3707*d+/*e+0"

⁴⁶⁵"See, e.g.."C o c v g w t" V g n g x k u k a p" P g v y q t m" E q o o g p v u" c v" 30"

⁴⁶⁶"69"EHT"ÈÈ"40327*g+. "p030"

⁴⁶⁷"See 5.9 GHz NPRM."56"HEE"Tef"cv"3482:."rctcl"33="34844/45."rctcl"750"

⁴⁶⁸5.9 GHz NPRM."56"HEE"Tef"cv"34835/37."rctcul"46/490"

⁴⁶⁹5.9 GHz NPRM."56"HEE"Tef"cv"34837/38."rctcul"4:/530"

^{46:}5.9 GHz NPRM."56"HEE"Tef"cv"34835."rctcl"460"

^{46:}5.9 GHz NPRM."56"HEE"Tef"cv"34838."rctcl"530"

pqvfg"vjcv" FUTE"cpf"E/X4Z" ygtg"vgejpkcnn{"kpeq o rcvkdng⁴⁷² Yg"wpfgtueqtf"qwt"iqcn"qh"rtq o qvki" vjg" o quv"urgetvcnn{"ghhkekgpv" wug"qh"vjg"KVU" dcpf."cpf"kp'xkvf"eq o o gpv"qp"j q y"dguv"vq"gpwutg"vjcv" y g" qrvk o k|g"vjg" dcpf" hqt" fgkxgt {"qh"KVU⁴⁷³

; 90⁴ Kp"vjg" {gctu"ukpeg"vjg"Eq o o kuukqp"hktuv"cfqrvgf" FUTE"vgejppnqi {"hqt"KVU"qrgtcvkqp"kp" vjg"70;" I J |" dcpf."eq o o wpkecvkqpu"cr rnkcevkqpu"vjcv" tgn {"qp"egnmwncd/dcugf"vgejppnqi kgu"j cxg" dgeq o g" kpetgcuqipn {"wdkswkvwu⁴⁷⁴ E/X4Z" tghngevu"vjg"ghhqtvu"qh" c"fkxgtug" i tqwr"qh"eq o o wpkecvkqpu"cpf" vtcpu rqtvcvkqp"kpfwuvt {"uvcmg j qnfgtu"vq"kpvg i tcvg"vjku"vgejppnqi {"kp'vq"KVU" wug⁴⁷⁵ Dcugf"qp"vjg" kphqt o cvkqp" kp"vjg" tgeqtf." y g" hkp"vjg" rwdnke"kpvtg"y kmm"dg"ugtxgf" d {"cfqrvkpi" E/X4Z"cu"vjg"KVU" fgkxgt {" vgejppnqi {"kp"vjg"gpvktg"52" o gicjgtv| "qh"vjg"KVU" dcpf." y jke j"kp"vwtg"tgs wktgu" r jcuqip /qww"vjg"gzkuvki" FUTE"vgejppnqi {"0

; :0⁴ Vjg"Eq o o kuukqp"tgekgxf"pw o gtqwu"eq o o gpvu"htq o "cwwq o qdkg" o cpwhcevtgtu"cpf" uk i pkhkecpv"ng o gpvu"qh"vjg"cwvq o qvkg"cpf"vgejppnqi {"kpfwuvtkgu"vjcv" uwr rqtv"vjg" wug"qh" E/X4Z" vgejppnqi {"⁴⁷⁴ Pqpg"qh"vjg"ug"eq o o gpvgtu"uwr rqtv"nk o kvki" E/X4Z"vgejppnqi {"vq"qpn {"vjg"42/ o gicjgtv| " rqtvcvkqp"qh"vjg"KVU" dcpf"cu" rtrqrguf"kp"vjg"5.9 GHz NPRM"cpf."vq"vjg"gzvgpv"vjg"Eq o o kuukqp" rtxkfgu" qpn {"52" o gicjgtv| "hqt"KVU."uwr rqtv" wug"qh"vjg"gpvktg"52" hqt" E/X4Z⁴⁷⁵ Uq o g"qh"vjg"ug"eq o o gpvgtu"uw i iguv" vjcv" y g" i q" hwtv jgt"cpf"ugv"cu"kf"vjg"gpvktg"97" o gicjgtv| "hqt"KVU" wukpi" E/X4Z"vgejppnqi {"⁴⁷⁶ Uwr rqtvtgu" qh" E/X4Z"vgejppnqi {"ekvg" dgpghkvu"qxgt" FUTE."uwe j"cu"dgwgt"rgthqt o cpeg"cpf"nkpmc i g"vq"7 I"vgejppnqi {" y jke j" gpcdngu"cr rnkcevkqpu"vq"eqvkwpg"gxqnxkpi"cpf" rtxkfgu" hqt" hcuvt" k o rng o gpvcvkqp⁴⁷⁷ Y g" cf fkvkqpcnn {"pqvg"vjcv"ugxgtc"gpvkvku" y kvj" qpi qkpi"kpvtg"uwr"kp" FUTE"qrgtcvkqpu"cuq" i gpgtcnn {"uwr rqtv" tgvckkpi"cu" o wej"KVU"urgetv"o"cu" rquukdng"cpf."c o qpi"vjg"ug."uq o g"zrtguugf" c" y kmmkpi pguu"vq"eqpukfgt" vjg" wug"qh" E/X4Z"vgejppnqi {"cu" c" o gcpu"vq y ctf"vjcv"gp⁴⁷⁸

; ;0⁴ Cu" fkuuwugf"kp"vjg"5.9 GHz NPRM." y g"uggm"vq" rtxkfg"vjg" o quv"urgetvcnn {"ghhkekgpv" o gcpu"qh"gpwutkpi"vjg"cxkncdknk {"qh"KVU⁴⁷⁹ I kxgp"vjcv" FUTE"cpf" E/X4Z"ctg"vgejpkcnn {"kpeq o rcvkdng" y kvj" gce j"qvjgt." y g"dgngkxg"vjcv"cnmq y kpi" wug"qh"qpn {"c"ukp i ng" fgkxgt {"vgejppnqi {"hqt"KVU"ku" o rqtvcpv" hqt" vjg"ucmg"qh"ghhkekgpv" wug"qh"vjg"52" o gicjgtv| "qh"urgetv"o"cu" y gmm"cu" o czk o k|kpi"vjg"uchgv {"dgpghkvu"KVU" ecp"fgkxgt"vq"vjg" C o gtkcep"rwdnke⁴⁸⁰ Cu"kp"4225" y jgp"vjg"Eq o o kuukqp"urgekkgf" c"ukp i ng"vgejppnqi kecn" uvcpcfctf."cpf"cu"vjg"Eq o o kuukqp"tgkytcvgf"kp"vjg"5.9 GHz NPRM." y g"eqvkwpg"vq"dgngkxg"vjcv" c"ukp i ng" uvcpcfctf" hqt"KVU"kp"vjku" dcpf"ku" o quv"nkmg n {"vq" rrtq o qvg"kpvtqrgtcdknk {"dgv y ggp" xg j kengu"cpf" kphtcuvtwewt"kp"vjg" Wpkvgf"Uvcvgu." gpcdng" tqdwu"cwvq o qvkg"uchgv {"eq o o wpkecvkqpu."cpf" ceengtcvg"vjg" pcvkqp y kfg" fgrnq {"o gpv"qh"KVU"cr rnkcevkqpu" y jkng"tgfwepk" k o rng o gpvcvkqp"equvu⁴⁷ Uchgv {"tgnvcvgf" cr rnkcevkqpu."uwe j"cu"eqmmkukqp/cxqkfcpeg"hwpevkqpu." o wuv"dg"ojgctf"o" d {"xg j kengu" wukpi" KVU."cpf" j cxkpi" c" ukp i ng"vgejppnqi kecn"uvcpcfctf" y kmm"gpwutg"vjcv"cnm"uwe j" gswkr rrgf" xg j kengu" y kmm" j cxg"eq o rcvkdng"

⁴⁷² 5.9 GHz NPRM."56"HEE" Tef"cv"34837."rctcl"4:0"

⁴⁷³ 5.9 GHz NPRM."56"HEE" Tef"cv"34837."rctcl"4:0"

⁴⁷⁴ See, e.g.."7 ICC"Eq o o gpvu."Pqmkc" Tgrn {"cv"3/4="Hqtf"Eq o o gpvu"cv"80"

⁴⁷⁵ See, e.g.."7 ICC"Eq o o gpvu"cv":0"

⁴⁷⁶ See, e.g.."7 ICCEq o o gpvu"cv"7/8="Hkcv" E j t {ungt"Eq o o gpvu"cv"6=" J ct o cp"Eq o o gpvu⁰

⁴⁷⁷ 7 ICC"Eq o o gpvu"cv";/38="Pqmkc" Tgrn {"cv"5/7="Hqtf"Eq o o gpvu"cv"80"

⁴⁷⁸ See, e.g.. C o gtkcep" J ki j y c {"Wugtu" Cmmkpeg"Eq o o gpvu"cv"4/50"

⁴⁷⁹ 5.9 GHz NPRM."56"HEE" Tef"cv"34837."rctcl"4:0"

⁴⁷ See Amendment of the Commission's Rules Regarding Dedicated Short Range Communications Services in the 5.850-5.925 GHz Band (5.9 Band); Amendment of Parts 2 and 90 of the Commission's Rules to Allocate the 5.850-5.925 GHz Band to the Mobile Service for Dedicated Short Range Communications of Intelligent Transportation Services."GV" Fqemg" Pq⁰ ; /; 7."Tgrqvt"cpf" Qtfgt."3;"HEE" Tef"467:."4688/8:."rctcu⁰35/38"4225="5.9 GHz NPRM."56"HEE" Tef"cv"34826."rctcl"50"

vgejppnqi {=47:"urgek{kp i"qpn{ "qpg"vgejppnqi { "cu"vjg"uvcpcfctf"ykmn"tg o qxg"cp {"vgejppnqi kecn" eq o rcvdknk{ "tkum"cpf"ngcf"vq" c" o qtg"uchg."ugewtg."cpf"vtwuvy qtvj { "xgjkewnct"uchgv {"gequ {uvg o 0"} Ceeqtfkpin{ ".cnvjqwi j"uq o g"eq o o gpvgtu"tsgwgu"vjcv"y g"vcmg" c"dvgejppnqi { "pgwvtnö"cr rtqcej. 482n y g" fgenkpg"vq"fq"uq"jgtg0"} I kxgp"vjcv"y g"ctg"nk o kvkpi"vjg"70;" I J | "KVU"urgetw o "vq"52" o g i c j g t v | . "y g" d g n k g x g" y g" o w u v" g p u w t g" v j c v" k v" e c p" d g" w u g f" o q u v" g h h k e k g p v n { . " c p f" v j c v" t g s w k t g u" w u g" q h" q p n { " q p g" v g e j p p n q i { 0 4 8 3 n

3220A Y g"cnuq"dgngkxg"kv" k o r q t v c p v" c v" v j k u" v k o g" v q" t g o q x g" c p { " w p e g t v c k p v { " c u" v q" v j g" v g e j p p n q i { " v j c v" y k m n" d g" w u g f" k p" v j k u" t g x k u g f" " K V U" d c p f" u q" v j c v" c w v q o q d k n g" o c p w h c e v w t g t u. " v j g" c w v q o q v k x g" c p f" v g e j p p n q i { " k p f w u v t k g u. " c p f" v j q u g" k o r n g o g p v k p i" K V U" u g t x k e g u" e c p" h q e w u" q p" d w k n f k p i" q w v" v j g" K V U" k p h t c u v t w e v w t g" c p f" g s w k r r k p i" x g j k e n g u" t c v j g t" v j c p" e q p v k p w k p i" v q" f k x k f g" t g u q w t e g u" c e t q u u" v y q" e q o r g v k p i" u v c p f c t u" k p" v j g" e q o k p i" { g c t u 0 4 8 4 n

3230A Y g"eqpukfgt" c" xctkgv { " q h" k u u w g u" y j g p" o c m k p i" u r g e v t w o" f g e k u k q p u" v j c v" y k m n" c h h g e v" v j g" k o r n g o g p v c k p q h" g u u g p v k n" r w d n k e" u c h g v { " c p f" v t c p u r q t v c k q p" u g t x k e g u 0"} U w e j" f g e k u k q p u" j c x g" v j g" r q v g p v k n" v q" k o r c e v" c" d t q c f" i" t q w r" q h" u v c m g j q n f g t u. " k p e n w f k p i" u v c v g" c p f" n q e c n" i q x g t p o g p v u. " g s w k r o g p v" * c w v q o q v k x g" c p f" e q o o w p k e c v k q p u" o c p w h c e v w t g t u. " c p f" e q o o w p k e c v k q p u" u g t x k e g u" r t q x k f g t u 0"} C h v g t" e c t g h w n" e q p u k f g t c v k q p" q h" v j g" v g e j p p n q i { / t g n c v g f" k u u w g u. " k p e n w f k p i" v j g" c f x c p v c i g u" c p f" f k u c f x c p v c i g u" q h" d q v j" F U T E" c p f" E / X 4 Z. " k p" v j g" t g e q t f" d g h q t g" w u. " y g" e q p e n w f g" v j g" r w d n k e" k p v g t g u v" y k m n" d g u v" d g" u g t x g f" d { " c f q r v k p i" E / X 4 Z" c u" v j g" K V U" f g n k x g t { " v g e j p p n q i { " c p f" r j c u k p i" q w v" v j g" g z k u v k p i" F U T E" v g e j p p n q i { 0"} Y g" e q p u k f g t" k u u w g u" t g n c v g f" v q" k o r n g o g p v k p i" v j k u" f g e k u k q p. " u w e j" c u" v k o k p i. " v j g" c w v j q t k | c v k p i" r t q e g u u. " c p f" v g e j p k e c n" t w n g" t g s w k t g o g p v u. " k p" v j g" H w t v j g t" P q v k e g" q h" R t q r q u g f" T w n g o c m k p i" v j c v" h q n n q y u" v j k u" H k t u v" T g r q t v" c p f" Q t f g t 0

3240A Spurring investment and fast deployment in the band 0 Y g"qdugtvg" v j c v" F U T E" j c u" p q v" g p l q { g f" y k f g u r t g c f" f g r n q { o g p v" c u" v j g" K V U" v g e j p p n q i { " o c p f c v g f" k p" v j g" W 0 U 0 4 8 5 n " C v" v j g" u c o g" v k o g. " o q o g p v w o" d q v j" f q o g u v k e c m { " c p f" i n q d c m { . " c r r g e t u" v q" d g" u j k h v k p i" v q y c t f" v j g" w u g" q h" E / X 4 Z" h q t" K V U 0 4 8 6 n " k p v g t p c v k q p c n" f g r n q { o g p v" c p f" w u g u" q h" F U T E" t g o c k p" k p" h n w z. " c p f" c u" 7 I C C" p q v g u. " o c p { " c w v q o c m g t u" c p f"

47: "Rtgnk o kpct { "Vgejpkecn" Cuugu o gpv" d { "W0U" FQV" uwd o kvvgf" kp" GV" Fqemg" 3 ; / 35 : "kvngf" dEpeqegtpu" y kvj " F t c h v" H E E" P R T O < W u g" q h" 7 0 : 7 2 / 7 0 ; 4 7" I J | " D c p f. o" c v" 3 0"

482: See, e.g., "W0U0" FQV" Tgrn { "cv" 66/67* uwr rqtvkpi "c" vgejppnqi { "pgwvtn" cr rtqcej" y j k n g" c f f k v k q p c n" v g u v k p i" k u" e q p f w e v g f" g z c o k p k i" v j g" r g t h q t o c p e g" q h" E / X 4 Z" c p f" F U T E + 0"} Y g" p q v g" v j c v" u q o g" c f o k p k u v t c v k q p u" n k m g" v j g" G w t q r g c p" W p k q p" j c x g" c f q r v g f" c" o q t g" v g e j p p n q i { " p g w v t c n" c r r t q c e j 0"} C w v q v c m m u" E q o o g p v u" c v" 8 / 9 * K p" G w t q r g. " 5 2" o g i c j g t v | " k u" c m n q e c v g f" h q t" X 4 Z. " c t t c p i g f" c u" v j t g g" e j c p p g n u" q h" 3 2" o g i c j g t v | " g c e j" * 7 : 9 7 / 7 ; 2 7" O J | + - " c" e j c p p g n" k u" c m n q e c v g f" r g t" u g t x k e g. " c p f" p q v" r g t" v g e j p p n q i { + 0"} V j k u" o q f g n" k u" w p r t q x g p. " j q y g x g t. " c u" G W" t g i w n c v k q p u" c t g" u v k n" d g k p i" t g x k u g f" c p f" c t g" p q v" e w t t g p v n { " h k p c n k | g f 0"} E c t" 4" E c t" E q o o w p k e c v k p q" E q p u q t v k w o" * E q o o k u u k q p" F g e k u k q p" 4 2 2 : 1 8 9 3 I G E ; " c p f" E q o o k u u k q p" k o r n g o g p v k p i" F g e k u k q p" * G W + " 4 2 3 ; 1 3 5 6 7 + " k u" e w t t g p v n { " d g k p i" t g x k u g f + 0}

483: See, e.g., "Ekueq" Eq o o g p v u" c v" 35/36* qpg" uvtqi" gequ { uvg o "ku" dgwgt" vjcv" y y q" y gcmgpgf" gequ { uvg o u + 0}

484: See, e.g., "Ekueq" Eq o o g p v u" c v" 35/36* rtqxfkpi" c" engct" vgejppnqi { "rcvj" ykmn" rtqxfkfg" o wej/ pggfgf" egtvckpv { "vq" vjg" o ctmgv + 0}

485: "Ceeqtfkpi" vq" vjg" C o g t k e c p" C u u q e k v k q p" q h" U v c v g" J k i j y c { " c p f" V t c p u r q t v c k q p" Q h h k e c n u" * C C U J V Q + . " v j g t g" c t g" 8.3: 4" F U T E" T U W u" f g r n q { g f" v j t q w i j q w v" v j g" W 0 U 0" c p f" 37.728" x g j k e n g u" g s w k r r g f" y k v j" F U T E" Q D W u 0" C C U J V Q" E q o o g p v u" c v" 9 0" H q t" e q p v g z v. " v j g t g" c t g" c r r t q z k o c v g n { " 4 9 6" o k n k q p" t g i k u v g t g f" x g j k e n g u" k p" v j g" W p k v g f" U v c v g u" q r g t c v k p i" q x g t" c r r t q z k o c v g n { " 6 0 4" o k n k q p" o k n g u" q h" r c x g f" c p f" w p r c x g f" t q c f y c { u 0"} See" U v c v k u v c l e q o. " P w o d g t" q h" o q v t" x g j k e n g u" t g i k u v g t g f" k p" v j g" W p k v g f" U v c v g u" h t q o" 3 ; ; 2" v q" 4 2 3 . : " j v r u < l y y y 0 u v c v k u v c l e q o u l v c v k u v c u l 3 : 5 7 2 7 | p w o d g t / q h / x g j k e n g u / k p / v j g / w p k v g f / u v c v g u / u k p e g / 3 ; ; 2 1" * n c u v" x k u k v g f" Q e v 0 4 9. " 4 2 4 2 + " c p f" d v u 0 i q x. " R w d n k e" T q c f" c p f" U v t g g v" O k n g e i g" k p" v j g" W p k v g f" U v c v g u" d { " V" r g" q h" U w t h c e g. " j v r u < l y y y 0 d v u 0 i q x l e q p g p v i r w d n k e / t q c f / c p f / u v t g g v / o k n g e i g / w p k v g f / u v c v g u / v f r g / u w t h c e g" * n c u v" x k u k v g f" Q e v 0 4 9. " 4 2 4 2 + 0}

486: See, e.g., "7 I C C" Eq o o g p v u" c v" 3 : / 4 3 * p q v k p i" v j c v" H q t f" k p v g p f u" v q" f g r n q { " E / X 4 Z" k p" c m n" q h" k v u" p g y" x g j k e n g" o q f g n u" u q n f" k p" C o g t k e c" * r g p f k p i" h c x q t c d n g" t g i w n c v q t { " c e v k q p + " c p f" v j c v" u g x g t c n" q v j g t" c w v q o q d k n g" o c p w h c e v w t g t u. " k p e n w f k p i" C w f k. " F c k o n g t" P q t v j" C o g t k e c" E q t r 0. " D O Y" q h" P q t v j" C o g t k e c. " c p f" L c i w c t" N c p f" T q x g t" c m n" j c x g" v g u v g f" E / X 4 Z" g s w k r o g p v + 0}

fgxgnqrgrtu"ctg" o qxkpi"vqyctf"E/X4Z0487"Ejkcpc"jcu"cfqrvgf"E/X4Z"kp"nkgw"qh" FUTE."cpf"vjg"Gwtqrgecp" Wpkqp"ku"gzrnqtkpi"y jvgjgt"vq"ko rno gopv"rqnekgu"vq"etgcvg"c"rcvj" hqt"E/X4Z" Fktgev" fgrnq{ o gpv"kp" Gwtqrge0488"D{ "fguki"pcvkpi" E/X4Z" hqt"KVU" fgnkxgt{ ".vjg" W0U0"ku" rqukvkqkpi" kvugh"cu" c" i nqdcn"ngcfgt"vq"dg" cv"vjg" hqtghtqpv"qh" eqpvkpwgf" E/X4Z" vgejppnqi { "fgxgnqr o gpv"cu"kv" dgeq o gu" o qtg" i nqdcn{ "jct o qpk| g f0"

3250A Y g"dcug"qwt" fgekukq"qp"vjg"tgeqt" f" dghqtg"wu"cpf"vjg"urgetv o "tgcnkvgu"vjcv"gzku"vqfc{0" Vjg"tgeqt" f"rtgugpvu" o wvkrng" hcevqtu"vjcv"ujcrg"qwt" xky0" Cfxqecvgu" hqt" E/X4Z" enck o "vjcv"vjgtg"ctg" ugxgtcn" dpgghkv"vjcv" guvcdnkj" E/X4Z" ku"vjg" dgvvgt" ejkqeg"cv"vju"vk o g0" 7 ICC" enck o u"vjcv" E/X4Z" Fktgev" vgejppnqi { "qwrgrtqt o u" FUTE"qp" tgnkcdnk{ ".tcp"ig"cpf" tgnkkgpeg"vq" kpvgtgtgpeg". "y jkej"kp"vwt"y km" jgnr" k o rtxg"pqp/hkpg/ qh/ukvg" ecrdcknkvgu"vq" rto qvg"uchgv{ "dgpghkv0489" Hwtvjt. "7 ICC" cuugt"v"vjcv" fwtkpi" vk o gu"qh" rcm" eqpi" guvqk. "E/X4Z" hwpevkqpcnv{ "ecp"qhnhqcf" nguu"vk o g/etkvecn" X4X. "X4k. "cpf" X4R" *xgjkeng/ vq/rgf" guvqkpc" eq o o wpkecvkqpu"vq"vjg" egmwnct"pgv y qtm. "vjwu" uwr rqtvkpi" uchgv{ /etkvecn" eq o o wpkecvkqpu048: " 7 ICC" cpf" Swneq o o "eqpv"gp"vjcv" E/X4Z" ku" dgvvgt" hqt" cejkxkpi" pgv y qtm" ghgevu" kpuhct" cu" equ" ghkkgpkegu" uwr rqt" fgrnq{ o gpv"qp" c" o qtg" ceengtcvg" f" dcuku048: " 7 ICC" hwtvjt" uvcv"vjcv" pgv y "xgjkeng" ppy" i pgtcn" { "ctg" gswkr"rgf" ykvj" E/X4Z" pgv y qtm" o qfg" ejkrugv. 492" cpf" kv"cpf" Swneq o o "cuugt" v"vjcv" E/ X4Z" vgejppnqi { "ecp" ngxgtc" i g" egmwnct" pgv y qtm" cp" f" vjgtgd{ "tgfweg" vjg" kphct" uvtwewt" equu" cuuqecvg" f" ykvj" fgrnq{ kpi" X4Z0493" 7 ICC" cpf" Ekueq" cuuq" pqv" vjcv" dgecvw" E/X4Z" qrgtcv" qp" dqv" 42" cpf" 32" o gicjgtv| "ejcppgn" kv" eqwn" f" uwr rqt" vjtwi" j rww" vjtwi" j qww" vjg" 52" o gicjgtv| "qh" urgetv o "vjcv" y qwn" f" dg" cxckcdng0494"

3260A Cfxqecvgu" hqt" FUTE. "kp" vwt. "cuugt" v"vjcv" kv" o c{ "jcxg" egtvckp" cfxcpcv" i gu" qxgt" E/X4Z0495" Hqt" gzc o rng. " o cp{ "uvcv" FQV" c" i gpeku" gzrtgu" c" rthgtgpeg" hqt" FUTE" qxgt" E/X4Z" dgecvw" vjg{ "ctg" eqpegt" p" f" cdqww" rqv" gvkc" pg" i cvkxg" k o rcev" qp" ewtgpv" FUTE" kpucmncv" kqpu" cpf" qrgtcv" kqpu" cpf" vjg" tguqwt" egu" vjcv" y qwn" f" dg" tgswtg" f" vq" tfguk" i p" vjg" KVU" u{ uvg o 0496" kp" cf" fkvkq. "PZR" uvcv" vjcv" tgegpv" vguv" tguvnu" f" q" p" q" fg o qp" uvtcv" engct" cfxcpcv" i gu" qh" E/X4Z" qxgt" FUTE" cpf" dngkxgu" vjcv" vcmkpi" vjg" dcp" f" cy c{ " htq o " FUTE" y qwn" f" dg" c" ckpu" vjg" rtkpekrng" qh" vgejppnqi { "pgwv" tcnk{ 0497" Ugxgtcn" eq o o gpv" tu" cuuq" gzrtgu" eqpegt" vjcv" E/X4Z" ku" c" pgv y "xgjkew" nct" vgejppnqi { "vjcv" ku" wpv" guv" f" cp" f" wpr" tqxgp" eq o rctg" f" vq" FUTE. " y jkej" ku" c" o cvwtg" u{ uvg o " tgc" f{ " hqt" o cuu" fgrnq{ o gpv0498" PZR" qdugt" xgu" vjcv" y qtn" f" y kfg" tqm/ qww" qh" FUTE" vgejppnqi { "ceengtcvg" f" kp" 423; " p" q" v" kpi" vjcv" kp" Gwtqr. " c" n" xgtuk" qpu" qh" vjg" pgv y " Xqmu" y c" i gp" I qh" o qf" gn" : "

487" 7 ICC" Eq o o gpvu" cv" 3:/43=" 7 ICC" Tgrn{ "cv" 9/32=" see also, e.g.. Hqt" f" Eq o o gpvu" cv" 8=" Lc" i wct" Ncp" f" Tqxtg" Eq o o gpvu" cv" 3=" DO Y" I tqwr" Eq o o gpvu" cv" 3/5=" Ekueq" Eq o o gpvu" cv" 9=" Swneq o o " Eq o o gpvu" cv" 8/; 0"

488" Cwvqcnmu" Eq o o gpvu" 8/9=" 7 ICC" Eq o o gpvu" cv" 430" Ceeq" f" kpi" vq" 7 ICC. "Ej" kpgug" tgi" wncv" tu" cmqecvg" f" urgetv o o " hqt" E/X4Z" kp" 423: "cpf" o clqt" cwq o cmgtu" y km" fgrnq{ "E/X4Z/ gpcdng" f" xgjkeng" u" kp" Ejkpc" pgzv" { gct=" vjg" Gwtqrgecp" Wpkqp" tgevg" f" FUTE" cu" vjg" rthgtg" f" KVU" vgejppnqi { "kp" 423; "cpf" ku" pqy" gzrnqtkpi" cp" cr" rqtcej" vjcv" y qwn" f" etgcv" c" rcvj" hqt" E/X4Z" fgrnq{ o gpv" kp" Gwtqrge0" 7 ICC" Eq o o gpvu" cv" 430" I nqdcn" cwq o qkxg" o cpwhcevtgtu" ctg" cntgcf{ " o cmkpi" fgrnq{ o gpv" rncpu" dcug" f" qp" cfqrvkq" qh" E/X4Z. "ceeq" f" kpi" vq" 7 ICC0" Id."

489" 7 ICC" Eq o o gpvu" cv" 32/330"

48: " 7 ICC" Eq o o gpvu" cv" 34/350"

48: " 7 ICC" Eq o o gpvu" cv" 37=" Swneq o o " Eq o o gpvu" cv" 7/80"

492" 7 ICC" Eq o o gpvu" cv" 370"

493" 7 ICC" Eq o o gpvu" cv" 37=" Swneq o o " Eq o o gpvu" cv" 7/8" E/X4Z" Fktgev" gpcdng" u" egmwnct" eq o o wpkecvkqpu" fktgev" f. " ykvj" qww" eqppg" evkpi" vq" cp{ " egmwnct" pgv y qtm" cp" f" ykvj" qww" tgswtkpi" cp{ " pgv y qtm" ugtk" keg" uwduetk" rvkqp+0"

494" 7 ICC" Eq o o gpvu" cv" 48=" Ekueq" Eq o o gpvu" cv" 35/360"

495" See, e.g.. "PZR" Tgrn{ "cv" 4=" FUTE" Cwvq" Uchgv{ "Eqcnk" vq" Eq o o gpvu" cv" : /350"

496" See, e.g.. "Ekv{ "qh" Htgg o qp" v" Eq o o gpvu=" Ocec o d" Eqw" pv{ " Fgrctv o gpv" qh" Tqc" fu" Eq o o gpvu=" VgppU o cti" Eq o o gpvu=" Ngvgt" htq o " I tgi" qt{ "L0" Fwpp. "Eqw" pug" hqt" P Y" W0U0" 55" Eqttk" fq" Eqw" pek" qh" I qxgtp o gpvu. "vq" Octngp" J" Fqtvej. "Ugetg" vct{ ".HEE. "GV" Fqemg" Pq0" 3;/35: " cv" 3" *hng" f" Pqx0" 34. "4242+0"

497" PZR" Tgrn{ "cv" 40"

498" Pgy" [qtm" Ekv{ "Eq o o gpvu" cv" 3/4=" see" kpvgnki" gpv" Vtcpu" rqtvcv" kqp" Uqekg" v{ "qh" Okejki" cp" Eq o o gpvu" cv" 4/50"

ctg"gswwrgf"ykvj" FUTE"vgejppnqi {"cpf"vjcv"tqcf"qrgtcvqtu"ctg"tqmkpi"qww" FUTE"cetquu"ugxgtcn" eqwvptkgu⁴⁹⁹"Hwtvjgt."PZR"qrkpgu"vjcv"dgecwug"E/X4Z"ku"dcugf"qp"encuuke"6I"NVG."kv"ku"oqnf" vgejppnqi {"06⁴⁹:"

3270A Yg"eqpenwfg"vjcv"ejqqkpi"E/X4Z"cu"vjg"uqng"KVU"eqppgevfg"xgjkeng"vgejppnqi {"kp"vjg" W0U0"ku"vjg"dguv"fgekukq"ht"rtq"oqvki" oqtg"tqdww"KVU"fgnrq {"ogpv"kp"vjg"70;" I J |"dcpf"kp"vjg"eqokpi" {"gctu0" Y jkng"gej"vgejppnqi {"jcu"vjg"ecrdknkv {"qh"rtqxfkpi"uchgv{/tgnvcgf"KVU"ugtxkegu."y g"ctg" rgtuwcfgf"vjcv"E/X4Z."vjtqw i j"kvu"cdknkv {"vq"cejkxg"i tgcvt"pgv y qtm"ghgevu"cpf"ngxgtc i g"egmwncn" pgy y qtmu"vq"tgfweg"kphtcuwtwevtg"equu."rtq"okugu"c" o qtg"ghhkegpn"cpf"ghgevxg"wg"qh"vjg"urgetw o 0" Y g" fq"pq"cpvkekrvcg"cp {"cr"rtgekcdng"fgnc {"kp"fgnrq {"ogpv"qh"vjku"pg y gt"vgejppnqi {"cu" o cp {"eq" o rcpkgu"ctg" cntgcf {"rtqfwepi"E/X4Z"fgxkegu"*kpenwfkpi" fwcw/ o qfg"fgxkegu"vjcv"ecp"qrgtcvg"wukpi" gkvjgt" FUTE"qt"E/ X4Z"vgejppnqi {"+ "cpf"tgcf {"kpi"vjgkt"cxckncdnkv {"hqt"wug.⁴⁹:"cpf" o cp {"uvvcgu"ctg"cntgcf {"fgnrq {"kpi"E/X4Z" qt"fwcn/ o qfg"gswwrgf"ogpv0" Y g"ctg"cuq"pqv"eqpxkpegf"vjcv"vjg"nk"okvgf"gzc" o rngu"qh"tgegpv" FUTE" fgnrq {"ogpv"kp"qvjgt"eqwvptkgu"qww y gki j"vjg"W0U0"cwvq" o qvkg"kpfwvwt {"ou"hgewu"qp"fgnrq {"kpi"E/X4Z" vgejppnqi {" .qt"vjcv"vjgug"nk"okvgf"fgnrq {"ogpv"rqtvgpf"cu"uk"pkhkecpv"i tq y vj"kp" FUTE"fgnrq {"ogpv"jgtg"kp" vjg"W0U0" Y g"ctg"eqpkhfgpv"vjcv"qwt"cevq"vqfc {"y kmm"gzrgfkgv"cpf"gzrcpf"vjg"fgnrq {"ogpv"qh"KVU"uchgv {" dgpghkvu"y jkng"gpuwtkpi"ghhkegpn"wg"qh"vjg"urgetw o 0

3280A Yg"tglev"enck"o u"d {"Kpuvkvwv"ht"Rqke {"Kppqxcvkqpu"*KRK+"vjcv"KVU"ku"cp"kfgc"y jqug"vk"o g" jcu"rcuugf"cpf"vjcv"xgjkeng"eqppgevkvkv {"ku"pqv"etkvecn"vq"rvgpvkcn"cwvq" o qvkg"uchgv {"dgpghkvu0"D {" tgfwekpi"vjg"KVU"dcpf."hwwvtg"KVU"fgnrq {"ogpv"ecp"dg"hgewugf"qp"fgnrq {"kpi"etkvecn"xgjkewncn"uchgv {" cr"rnkecvkqpu"cpf"vcmg"kvu"rqukvkp"cu"rctv"qh"cnct"igt"htc"og y qtm"qh"vgejppnqi {"uqnwvkqpu"ewttgpn {"cxckncdng" vq" o cmg"tqcf"vtcxgn"uchgt"ht"vjg"C" o gkcep"rgqrng0" Y g"cuq"tglev"vjg"tsgwguv"d {"xctkquw"nqecn"gpvkvku." uvvcg"fgrcv"ogpvu"qh"vtpurqvtcvkqpu"cpf"qvjgtu."cti"wkpi"vjcv"vjg"Eq" o o kuukqpu"ujqwnf"eqpvkpwg"vq"eqpfwev" vguvki"kp"eqqtfkpcvkqpu"ykvj"vjg"W0U0" FQV."dqvj" ykvj"E/X4Z"cpf" FUTE"vgejppnqi {" .vq"hwmm {"wpfgtucpf" vjg"qrgtcvkvpcn"ko rcevu"qh"vjgug"ugtxkegu"vq"gej"qvjgt0^{4:2}:" Y g"ctg"ejqqkpi"cu"ukp"ing"vgejppnqi {"hqt"vjg" gpvktg"KVU"dcpf"vjcv"y g"fgvt"okpg"ku"dguv"uwkvgf"ht"KVU"kp"vjg"eqokpi {"gctu0" Hwtvjgt"fgnc {"y kmm"pqv"ugtxg" vjg"C" o gkcep"rwdnke0" Tcvjgt."kv"ku"dguv"vq" o qxg"ht y ctf"ykvj"c"tgxkugf"70;" I J |"dcpf"rncp"y jkej"uwrrqtvu" E/X4Z"vgejppnqi {"uq"vjcv"vjgug"xgjkeng"tgnvcgf"uchgv {"cr"rnkecvkqpu"ecp"dg"hwmm {"fgnrq {"gf"swkemm {"0" Cwwq" o qvkg"uvcmg"jqnfgtu"jcxg"jcf"c" o rng"vk"o g"vq"gxncwcvg"vjg"xctkquw"vgejppnqi"kgu"cpf" o cmg"vjgkt"ecug"cu" vq"vjg"dgvygt"cr"rtqcej0" Dcugf"qp"vjg"tgeqtf"dghtg"wu."y g"dgngxg"vjcv"qrkpi"vq"rgt"okv"cu"ukp"ing" vgejppnqi {" o E/X4Z" o kp"vjg"tgxkugf"dcpf"rncp"dguv"ugtxgu"vjg"C" o gkcep"rwdnke0

2. Transitioning to C-V2X Operations in the ITS Band

3290A Kp"rtqrqkpi"vq"cwvjgtk |g"E/X4Z"qrgtcvkvkqpu"kp" o quv"qt"cmn"qh"vjg"52" o gicjgtv |"qh" urgetw o "kp"vjg"pg y "KVU"dcpf"*70: ; 7/70; 47" I J |."y g"uqv i jv"eq" o o gpv"qp"rquukdng"vtcpukvkv"rcvju"ht" KVU"nkegpuggu"wkpi" FUTE"dcugf"vgejppnqi {"kp"uq"o g"qt"cmn"qh"vjg"gzkuvki"70;" I J |"dcpf0^{4:3}" Y g"uqv i jv" wr/vq/fcvg"kpht"o cvkq"qp"cevwcn" FUTE"qrgtcvkvkqpu"*g0i0"kpht"o cvkq"qp"vjg"qp/dqctf"wpkvu"cpf"tqcfukfg" wkvu"fgnrq {"gf+."pqvki"vjcv" FUTE"fgnrq {"ogpv"jcf"dggn"nk"okvgf"cpf"vjcv" o cp {"FUTE"qrgtcvkvkqpu" cr"rgctgf"vq"dg"fg" o qpvtcvkqpu"qt"rknqv"rtqlgevu0^{4:4}" Y g"kpswktgf"i gpgtcnn {"cdqvw"rquukdng"vtcpukvkv"rcvju"vq" E/X4Z/dcugf"uqnwvkqpu0^{4:5}"Vq"hcenkvvcg"vjg"vtcpukvkv"qh"gzkuvki"KVU"nkegpuggu."y g"rtqrqugf"vq" o qfkh {" gzkuvki"nkegpugu"vq"cmnqy"qrgtcvkvkqpu"qh"E/X4Z"cpf"kpkvvgf"eq" o o gpv"qp"jqy"vjku"y qwnf"chgevt"ewttgpn"

499" PZR"Eq" o o gpv" Cwvce j o gpv"cv"5/60"

49:" PZR"Eq" o o gpv" Cwvce j o gpv"cv"60"

49:" See, e.g., "Repcuqpk"Eq" o o gpv="Dquej"Eq" o o gpv"cv"50"

4:2" See, e.g., "W0U0" FQV" Tgrn {"cv"80"

4:3" 5.9 GHz PRT0."56"HEE" Tef"cv"34838/39."rctc0"540"

4:4" 5.9 GHz NPRM."56"HEE" Tef"cv"34839/3: ."rctcu0"55."570"

4:5" 5.9 GHz NPRM."56"HEE" Tef"cv"34839."rctc0"550"

nkegpuggu" y kvj "qr gtcvkqpcn" ukvgu^{4:6}" Y g" cnuq" kpswktgf" cdqww" cp{ "ng i cn" eqpukfgtcvkqpu" tgnckpi "vq" vjg" vtcupukvqp^{4:7}" Vjgug" kpenwfgf" j qy" nqpi "vq" cnuq y" gzkvukpi "nkegpuggu" vq" eqpvkpwg" FUTE/dcugf" qr gtcvkqpu" *g⁰ i 0. "tqc fukfg" kphctvutwewtg" qt" qp/dqctf" wpkvu+. "y jgtg" y g" uqwi j v" eq o o gpv" qp" y jgvjgt" ukz" o qp v j u" y qwnf" dg" uw h h k e g p v" h q t" o k i t c v k p i " v q " E / X 4 Z / d c u g f " q r g t c v k q p u ^{4:8} " Y g " c n u q " c u m g f " v j c v " e q o o g p v g t u " c f f t g u u " c p { " q v j g t " e q p u k f g t c v k q p u " q t " c r r t q c e j g u " v j c v " v j g " E q o o k u u k a p " u j q w n f " v c m g " v q " g h h g e v w c v g " c p " c r r t q r t k c v g " v t c p u k v k a p " q h " F U T E " q r g t c v k q p u " v q " E / X 4 Z ^{4:9} " Y k v j " t g i c t f " v q " v j g " v g e j p k e c n " t w n g u " h q t " q r g t c v k p i " E / X 4 Z " k p " v j g " 5 2 " o g i c j g t v | " q h " K V U " u r g e v t w o . " y g " r t q r q u g f " v q " c f q r v " t w n g u " v j c v " n c t i g n { " h q m q y " v j g " c r r t q c e j " v c m g p " y j g p " v j g " t w n g u " h q t " F U T E " y g t g " c f q r v g f ^{4:10} " " "

32:0A U g x g t c n " K V U " n k e g p u g g u " c p f " r t q r q p g p u " r t q x k f g f " x c t k q w u " v { r g u " q h " k p h q t o c v k q p " c d q w w " v j g " u v c v g " q h " F U T E " q r g t c v k q p u ⁰ " Y g " p q v g " v j c v " v j g " E q o o k u u k a p o u " f c v c d c u g " e w t t g p v n { " n k u v u " 3 4 6 " c e v k x g " K V U " n k e g p u g u " q p " e j c p p g n u " k p " v j g " 7 0 : 7 2 / 7 0 ; 4 7 " I J | " d c p f < " ; 3 " n k e g p u g g u " c t g " e q p u k f g t g f " o r w d n k e " u c h g v { " g n k i k d n g o " y k v j " v j g " t g o c k p k i " 5 5 " s w n k h k g f " w p f g t " v j g " k p f w u v t k n l D w u k p g u u " R q q n " t g s w k t g o g p v u ⁰ " Y j k n g " 7 4 " n k e g p u g g u " j c x g " d g g p " i t c p v g f " t g i k u v t c v k q p u " h q t " h k z g f " u k v g " T U W u " y g " f q " p q v " m p q y " v j g " g z v g p v " q h " r q t v c d n g l o q d k n g " t q c f u k f g " w p k v u " c p f l q t " q p / d q c t f " w p k v " v q " q p / d q c t f " w p k v " e q o o w p k e c v k q p u ⁰ " Y g " j c x g " p q " f k t g e v " f c v c " q p " j q y " o c p { " Q D W u " c t g " q r g t c v k p i " w p f g t " c " i x g p " F U T E / d c u g f " K V U " n k e g p u g " d g e c w u g " v j g t g " k u " p q " t g s w k t g o g p v " v q " q d v c k p " c " E q o o k u u k a p " n k e g p u g " v q " q r g t c v g " c p " q p / d q c t f " w p k v ⁰ " " "

32:0A Y g " t g e g k x g f " x g t { " n k o k v g f " t g u r q p u g " y k v j " t g u r g e v " v q " q w t " k p s w k t { " c d q w w " v j g " e q p u k f g t c v k q p u " c p f " d g u v " o g v j q f u " h q t " v t c p u k v k p k p i " e w t t g p v " F U T E / d c u g f " K V U " n k e g p u g g u " v q " E / X 4 Z ⁰ " Y j k n g " u q o g " w p n k e g p u g f " r t q r q p g p v u " e q o o g p v g f " v j c v " o k i t c v k p i " v q " E / X 4 Z " k p " v j g " w r r g t " 5 2 " o g i c j g t v | " u j q w n f " d g " t g s w k t g f " v q " d g " e q o r n g v g f " k p " u k z " o q p v j u . ^{4:11} " y g " t g e g k x g f " p q " u w d u v c p k x g " e q o o g p v u " q p " j q y " v j g " v t c p u k v k p " h t q o " F U T E / d c u g f " v q " E / X 4 Z / d c u g f " v g e j p q n q i { " e q w n f " d g " k o r n g o g p v g f . " q t " v j g " c e v w c n " v k o g n k p g " v j c v " u j q w n f " d g " g u v c d n k u j g f ⁰ " O q u v " K V U " r t q r q p g p u " h q e w u g f " v j g k t " e q o o g p v u " q p " u g g m k p i " v q " t g v c k p " w u g " q h " v j g " g p v k t g " 9 7 " o g i c j g t v | " q h " u r g e v t w o " k p " v j g " 7 0 ; " I J | " d c p f . " p q v " q p " v t c p u k v k p " o c v g t u ⁰ " C e e q t f k p i n { . " y g " y q w n f " d g p g h k v " h t q o " c f f k v k q p c n " k p h q t o c v k q p " j q y " d g u v " v q " r t q e g g f " y k v j " t g i c t f " v q " v j g u g " v t c p u k v k p " o c v g t u " d g h q t g " o c m k p i " c " f g e k u k a p ⁰ " K p " v j g " H w t v j g t " P q v k e g . " y g " u g g m " e q o o g p v " q p " v j g u g " k u u w g u " v q " f g x g n q r " c " o q t g " e q o r n g v g " t g e q t f " y k v j " t g u r g e v " v q " v j g " f c v g " d { " y j k e j " c m " K V U " q r g t c v k q p u " y k m " d g " t g s w k t g f " v q " w u g " E / X 4 Z / d c u g f " v g e j p q n q i { " k p " v j g " w r r g t " 5 2 " o g i c j g t v | " q h " v j g " 7 0 ; " I J | " d c p f ⁰ " P q y " v j c v " y g " j c x g " f g e k f g f " q p " v j g " d c p f " r n c p " h q t " v j g " 7 0 ; " I J | " d c p f " c p f " q w t " c r r t q c e j " h q t " K V U " q r g t c v k q p u . " y g " g z r g e v " v q " f g x g n q r " c " u w h h k e g p v n { " e q o r n g v g " t g e q t f " v j c v " e c p " o q t g " h w n n { " k p h q t o " q w t " f g e k u k a p u ⁰ " " "

3320A Cu " r t q r q u g f " k p " v j g " 5.9 GHz NPRM, y g " y k m n " o q f k h { " g z k v u k p i " K V U " n k e g p u g u " v q " c n n q y " q r g t c v k q p " q n n { " k p " v j g " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " d c p f ^{0:12} " Y g " y k m n " t g s w k t g " n k e g p u g g u " v q " v t c p u k v k p " q w w " q h " v j g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " u g i o g p v " q h " v j g " d c p f " y k v j k p " q p g { g c t " q h " v j g " g h h g e v k x g " f c v g " q h " v j k u " H k t u v " T g r q t v " c p f " Q t f g t " c p f " " "

4:6" 5.9 GHz NPRM."56"HEE"Tef"cv"34839."rctc"560"

4:7" 5.9 GHz NPRM."56"HEE"Tef"cv"34839."rctc"560"

4:8" 5.9 GHz NPRM."56"HEE"Tef"cv"34839."rctc"580"

4:9" 5.9 GHz NPRM."56"HEE"Tef"cv"34839."rctc"55."34839."rctc"580"

4:10" 5.9 GHz NPRM."56"HEE"Tef"cv"34839."rctc"590"

4:11" PEVC"Eq o o g p v u " c v " 6 6 = " V / O q d k n g " E q o o g p v u " c v " 4 . " p ⁰ 7 0 " " K p " t g e g p v n { " h k n g f " e x p a r t e " e q o o g p v u . " u q o g " c w v q o q v k x g . " v g e j p q n q i { . " c p f " v g n g e q o o w p k e c v k q p u " e q o r c p k g u " t g s w g u v " v j c v " y g " r g t o k v " E / X 4 Z " q r g t c v k q p u " k p " v j g " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " d c p f " c u " u q p p " c u " r q u u k d n g " v j t q w i j " e q q t f k p c v k a p " y k v j " n k e g p u g g u " r t q x k f k p i " F U T E / d c u g f " q r g t c v k q p u " k p " v j c v " u r g e v t w o ⁰ " " N g v g t " h t q o " O k v e j " D c k p y q n . " E j k g h " I q x g t p o g p v " T g n c v k q p u " E q w p u g n . " H q t f " O a v t " E q o r c p { . " U v g r j g p " T a d g t . " X ⁰ R ⁰ . " H k c v " E j t { u n g t " C w v q o q d k n g u " W ⁰ U ⁰ " N N E . " g v " c n ⁰ " v q " C l k v " R c k . " E j c k t o c p . " H E E . " G V " F q e m g v " P q ⁰ 3 ; / 3 5 : " c v " 3 / 4 " * h k n g f " P q x ⁰ 7 . " 4 2 4 2 + * n g v g t " h k n g f " d { " t g r t g u g p v c v k x g u " q h " H q t f . " H k c v " E j t { u n g t . " F c k o n g t . " J c t o q p . " C r r n k g f " K p h q t o c v k q p . " V / O q d k n g . " P q m k c . " S w c n e q o o + = " S w c n e q o o " P q x ⁰ 7 . " 4 2 4 2 " E x P a r t e " c v " 3 - " N g v g t " h t q o " E j t k u " O c t e j c p f . " X ⁰ R ⁰ . " I q x g t p o g p v " c p f " k p f w u v t { " T g n c v k q p u . " C o g t k e c u . " L c i w c t " N c p f " T q x g t " P q t v j " C o g t k e c . " N N E . " v q " E j c k t o c p " C l k v " R c k . " H E E . " G V " F q e m g v " P q ⁰ 3 ; / 3 5 : " c v " 4 " * h k n g f " P q x ⁰ 3 2 . " 4 2 4 2 + = " 7 I C C " P q x ⁰ ; . " 4 2 4 2 " E x P a r t e " c v " 3 / 4 " * t g r t g u g p v c v k x g u " q h " H q t f . " H k c v " E j t { u n g t . " C w f k " q h " C o g t k e c . " F c k o n g t " P q t v j " C o g t k e c . " S w c n e q o o . " P q m k c . " R c p c u q p k e + ⁰ " " "

4:12" See" 5.9 GHz NPRM."rctc"560"

cfqrv"twngu"fgukipcvkpi"E/X4Z"vgejppnqi{"cu"vjg"KVU"fngkxgt{"u{uvgo"qpeg"vjg"Eqo o kuukqp"cfqrvc"fgcfnkpg"cpf"vjg"vtcpukvkqp"vq"vjg"tgxkugf"KVU"dcpf"ku"eqo rnvgo"Qwt"fgekukqp"jgtg"dg"ikpu"vjg"vtcpukvkqp"qh" FUTE/dcugf"KVU"kp"vjg"70;" I J|"dcpf"vq"vjg"70: ;7/70;47" I J|"rqtvkqp"qh"vjg"dcpf"y jkng"y g"fgxgnqr"c" o qtg"eqo rnvgo"tgeqtf"vq"fgvgtokpg"vjg"cr rtrtkcvg"fcvg"cpf"rtqegfwtgu"d{"y jkej"cmn"KVU"qrgtcvkqpu"o wuv"vtcpukvkqp"vq"E/X4Z"vgejppnqi{"0"HWvtjgt o qtg."y g"cpvkekrcvg"vjcv"uqog" FUTE/dcugf"KVU"nkegpuggu"oc{"y kuj"vq"qrgtcvg"E/X4Z/dcugf"KVU"kp"vjg"70: ;7/70;47" I J|"KVU"dcpf."cpf"y g"y kmn"cmny"vjg o "vq"fq"uq"cv"cp {"vkog"vj tqwi j"vjg"UVC."gzrgtkog pvcn"nkegpukpi"qt"qvjgt"gzkukpi"tgi wncvqt{"rtqeguugu."4:3"qp"cpq/ kpvghgtgpeg"dcuku"wrqp"rtqrgt"ujqykp i"0"Vjku"hgzkdnq."ecug/d{/ecug"cr r t qce j"y kmn"gpdcng"cu o qqvjgt"cpf" o qtg"tcrkf"fgxgnqr o gpv"cpf"fgnrq{"ogpv"qh"E/X4Z/dcugf"KVU"qrgtcvkqpu"kp"vjg"pgct"vgt o 0"

3. Protecting Federal Operations

3330A Kp"vjg"5.9 GHz NPRM."y g"rtqrugf"vq"tgvcqp"htq"nkegpuggu"wkpi"E/X4Z"vgejppnqi{"vjg"gzkukpi"eqqf"fkpcvkqp"twngu"vjcv"ewttgpn{"cr rn{"vq" FUTE" TUWu."kpenwfkpi"eqo rnkcepg"y kvj"gzkukpi" FUTE"twngu"vq"rtqvev"vjg"70;" I J|"dcpf"rtk o ct{"Hgfgtcn" Tc f k q n q e c v k p p"Ugtxkeg"4:4" Y g"pqvgf"vjcv" FUTE" TUWu"ctg"pqv"rtqvev"htq o "jct o hwn"kpvgthgtgpeg"ecwugf"d{"kpew o dgpv"hgfgtcn"qrgtcvkqpu"4:5"Vjg"gzkukpi" FUTE"twngu"vjcv"rtqvev"vjg"70;" I J|"hgfgtcn"tc fct u"t g s w k t g"v j c v" T U W" k p u v c m n c v k q p u"y k v j k p"97" mknq o g v g t u"q h"7;"urgekkgf"hgfgtcn"tc fct n"q n e c v k p p"o w u v" d g" e q q t f k p c v g f"y k v j" P V K C"4:6" Cu"y g"cuuq" qdugt x g f."t g s w k t k p i" E / X 4 Z" g s w k r o g p v" v q" e q q t f k p c v g f" k p u v c m n c v k q p u"y k v j k p" v j g"97/ m k n q o g v g t" e q q t f k p c v k p p" | p p g u" t g r t g u g p v u" d v j g" o q u v" u v t c k i j" v h q t y c t f" c r r t q c e j" h q t" g p c d n k p i" e q o r c v k d k n k v{"y k v j" h g f g t c n" q r g t c v k q p u"4:7" Y g"uqwi j v"eq o o g p v"q p"v j k u" r t q r q u c n"0"

3340A PVKC."vjg"qpn{"eqo o gpvkpi" rctv{."ci tggu"y kvj"vjg"Eqo o kuukqp"vjcv"tgswtkpi"KVU" TUWu" vq"eqqf"fkpcvg"kpucmncvkqpu"y kvj kp" c"eqqf"fkpcvkqp" | p p g u" k u" v j g" d g u v" c r r t q c e j" v q" h c e k n k v c v g" u j c t k p i" y k v j" h g f g t c n" u { u v g o u"4:8" Dcugf"wrqp"kvu"cpnc"uku."PVKC"dgnxgu"vjg"eqqf"fkpcvkqp" | p p g u" u g v" h q t v j" k p" u g e v k p p"; 20593*d+" qh"vjg"Eqo o kuukqpou"twngu"htq" FUTE" TUWu"ecp"gswnn{"cr rn{"vq"E/X4Z" TUWu"0" J q y g x g t."v q" r v r o k | g" w p g p e w o d g t g f" p p q" h g f g t c n" q r g t c v k q p u." P V K C" g z c o k p g f" e w t t g p v" h g f g t c n" t c f c t" w u c i g" c p f" f g v g t o k p g f" v j c v" v j g" p w o d g t" q h" r t q v e v k p p" | p p g u" e c p" d g" t g f w e g f" h t q o"7;"vq"52."cpf"tcvjgt"vjcp"cr rn{kp i"cu"lkipng"rtqvev"kp" f k u v c p e g" v q" c m n" h g f g t c n" u v c v k q p u." o q u v" q h" v j g" e q q t f k p c v k p p" | p p g u" e q w n f" d g" v c k n q t g f" v q" v j g" q r g t c v k p i" r c t c o g v g t u" q h" g e j" u v c v k p p" c p f" i g p g t c m n{"t g f w e g f" h t q o" v j g" e w t t g p v"97" m k n q o g v g t u"4:9" V j g" t g o c k p k p i"52" e q q t f k p c v k p p" | p p g u" c t g" u j q y p" k p" V e d n g"3" q h" P V K C"0" U g r v"0":. "4242" n g v v g t" v q" v j g" E j k g h" q h" v j g" H E E"0" Q h h k e g" q h" G p i k p g g t k p i" c p f" V g e j p p n q i {"0" U k p e g" w p f g t" g z k u k p i" t w n g u." P V K C" o c {" c w v j q t k | g" c f f k v k q p c n" h g f g t c n" t c f k q n q e c v k p p" u g t x k e g u."4:10" P V K C" t g s w g u v" v j c v" v j g" t w n g u" d g" e n c t k h k g f" v q" u r g e k h k e c m n{"t g e q i p k | g" k v u" c w v j q t k v{"v q" c o g p f." o q f k h{"."qt"tgxqmg"uwej"cuukipog p v u"4:11"v j c v" e q w n f" c h h g e v" v j g" e q q t f k p c v k p p" | p p g u"0" C e e q t f k p i n {"." P V K C" t g s w g u v" v j c v" u g e v k p p"; 20593*d+" d g" t g x k u g f" c u" h q m q y u"0" o i Q r g t c v k p p" q h" T U W" u v c v k q p u" y k v j k p i m k n q o g v g t u" q h" v j g" n q e c v k q p u" n k u v g f" k p" v j g" v c d n g" d g n q y."v q" y j k e j" P V K C" o c {"c o g p f." o q f k h{"."qt" t g x q m g" n q e c v k q p u" c p f" c u u q e k c v g f" r c t c o g v g t u." o w u v" d g" e q q t f k p c v g f" v j t q w i j" v j g" P c v k q p c n"

4:3" Y g"pqvg"vjcv"ewttgpn{"vjgtg"ctg"3: "gzkukpi"gzrgtkog pvcn"nkegpugu"cwvjqt k|kp i"vjg"qrgtcvkqp"qh"E/X4Z"0"HEE" Wpkxgtucn"Nkegpukpi"U{uvgo."Ugrvgodgt"45."42420"
4:4"See 5.9 GHz NPRM."56"HEE"Tef"cv"34842."rctcl"68/690"
4:5"See 5.9 GHz NPRM."56"HEE"Tef"cv"34842."rctcl"69"ekvkpi"69"E0H0T0"È"; 20593*d+0"
4:6"See 69"EHT"; 20593*d+0"
4:7"See 5.9 GHz NPRM."56"HEE"Tef"cv"34842."rctcl"690"
4:8"See PVKC"Ugrv0":. "4242 Ngvgt"cv"50"
4:9"Vjg"rtqvev"kp"tgswtg o gpvu"eqpvkpgf"jgtgk"ctg"rtg o kugf"wrqp"vjg"rqygt"cpf"qvw/qh/dcpf"g o kuukqp"ngxgnu" eqpvgo rncvgf"d{"vjg"Eqo o kuukqp"0" Cp{"fgxkcvkqp"htq o"vjqug"rctc o gvgtu"o c{"tguwn"kp"ce"jcpig"vq"vjg"vg" tgswtg o gpvu"
4:10"See 69"EHT"; 20593*e+0"
4:11"69"W0U0E0"; 24*d+4*C+0"

Vgngseq o wpkecvkqpu"cpf"Kphqt o cvkqp"Cf o kpkvctcvkqp00⁵²²ⁿ

3350A PVKC"cnuq"rgthqt o gf"cp"cpn{uku"cuuguakpi"vjg"rqvkvkcn"ko rcev"qh"E/X4Z"QDWu"qp"hgfgtcn"qrgtcvkqpu00"Vjg"PVKC"cpn{uku."dcugf"wrqp"vjg"Eq o o kuukqp00"rtqrugf"twngu"htq"E/X4Z"QDWu."kpfkcevgu"vjcv"eqqtfkpcvkpi"vjgug"fgxkegu"yqwnf"pqv"dg"pgeguuct{"vq"rtqvgev"hgfgtcn"qrgtcvkqpu00

3360A Yg"ci tgg"vjcv"ujctkpi"dgvyggp"KVU"cpf" I qxgtp o gpv"qrgtcvkqpu"ku"rgt o kvvgf"kh"rtqrgt"eqqtfkpcvkqp"ku"rgthqt o gf."cpf"vjwv"y g"cfqr"vjg"PVKC"tgeq o o gpfcvkqp00" Yg"hkp"vjcv"vjku"eqqtfkpcvkqp"tgswtg o gpv"y kmm"gpdcng"KVU"fg rnq{" o gpv"cetquu"vjg"WO00" Yg"y kmm"tgrnceg"vjg"ewttgpp"vcdng"kp"ugevkqp"; 20593"y kvj"PVKC00"tgxkugf"vcdng00

D. Statutory Considerations

3370A Jgtg"y g"ugv"htvj"kp"i tgcvgf"fgvckn"vjg"Eq o o kuukqp00"cwvj qtkv{"vq"vtpcvkqp"KVU"nkegpuggu"vq"vjg"wr rgt"52" o g i c j g t v | "q h"v j g" d c p f . " c u " y g m " c u " k v u " c w v j q t k v { " v q " w n v k o c v g n { " v t c p u k v k p " K V U " n k e g p u g u " h t q o " F U T E / d c u g f " v q " E / X 4 Z / d c u g f " v g e j p q n q i { 0^{523m} " C u " g z r n c k p g f " d g n q y . " d q v j " c e v k q p u " c t g " y g m " y k v j k p " v j g " E q o o k u u k q p 0 0 " d t q c f " c w v j q t k v { " v q " t g i w n c v g " u r g e v t w o " k p " v j g " o r w d n k e " k p v g t g u v o " w p f g t " V k v n g " K K K " q h " v j g " C e v 0 0 " K p " v j k u " t g i c t f . " y g " h q e w u " q p n { " q p " F U T E " n k e g p u g g u . " d g e c w u g " w p f g t " v j g " E q o o k u u k q p 0 0 " g z k u k p i " n k e g p u k p i " t w n g u " v j g " q p n { " K V U " u g t x k e g " r g t o k v v g f " w p f g t " v j q u g " t w n g u " k u " F U T E " u g t x k e g 0⁵²⁴ⁿ

3380A Relocating DSRC to the upper 30 megahertz. Yg"hkp"vjcv"tgnqecvkpi" FUTE"qrgtcvkqpu"vq"vjg"wr rgt"52" o g i c j g t v | "q h"v j g" d c p f " k u " y k v j k p " v j g " E q o o k u u k q p 0 0 " c w v j q t k v { " w p f g t " u g e v k q p " 5 3 8 " q h " v j g " E q o o w p k e c v k q p u " C e v 0^{525m} " U g e v k q p " 5 3 8 " i k x g u " v j g " E q o o k u u k q p " c w v j q t k v { " v q " o q f k h { . " d { " t w n g o c m k p i " q t " c f l w f k e c v k q p . " c p { " n k e g p u g " o g k v j g t " h q t " c " n k o k v g f " v k o g " q t " h q t " v j g " f w t c v k q p " q h " v j g " v g t o " v j g t g q h . " k h " k p " v j g " l w f i o g p v " q h " v j g " E q o o k u u k q p " u w e j " c e v k q p " y k m m " r t q o q v g " v j g " r w d n k e " k p v g t g u v . " e q p x g p k g p e g . " c p f " p g e g u u k v { 0^{526m} " D w w " e q w t v u " j c x g " j g n f " v j c v " v j g " E q o o k u u k q p 0 0 " c w v j q t k v { " v q " o o q f k h { o " n k e g p u g u " w p f g t " u g e v k q p " 5 3 8 " f q u " p q v " e q p h g t " q p " v j g " E q o o k u u k q p " v j g " c d k n k v { " v q " g h h g e v " c " o h w p f c o g p v c n " e j c p i g o " v q " v j q u g " n k e g p u g u 0^{527m} " V j k u " o g c p u " v j c v " v j g " E q o o k u u k q p " e c p " r g t o k u u k d n { " g z g t e k u g " k v u " c w v j q t k v { " w p f g t " u g e v k q p " 5 3 8 " k h " * 3 + " k v " h k p f u " v j c v " f q k p i " u q " u g t x g u " v j g " o r w d n k e " k p v g t g u v o " c p f " * 4 + " v j g " o q f k h k e c v k q p " k u " p q v " u q " u y g g r k p i " c u " v q " c o q w p v " v q " o h w p f c o g p v c n " e j c p i g o " v q " v j g " n k e g p u g u " d g k p i " o q f k h k g f 0 0 " Y g " c f f t g u u " g e j " q h " v j g u g " s w g u v k q p u " k p " v w t p 0 0

3390A Cu"gzrnckpgf" o qtg"hwmm{"cdqgx."vjku" o qfkhkecvkqp"ku" o cpkhguvn{"kp"vjg"rwdnke"kpvtgguv^{528m}" Vjg" o qfkhkecvkqp"y kmm" o cmg"tqq o "hqt"xcnwdcng"pgy"wpnkegpugf" wugu"kp"vjg"nqygt"67" o g i c j g t v | "q h"v j g" d c p f . " y j k n g " r t q x k f k p i " g z k u k p i " F U T E " n k e g p u g g u " u w h k e k g p v " u r g e v t w o " v q " r t q x k f g " u w d u v p v k c m n { " v j g " u c o g " d c u k e " x g j k e w n c t " u c h g v { " u g t x k e g u " v j g { " p q y " r t q x k f g 0^{529m} " V j k u " o q f k h k e c v k q p " k u " v j g t g h q t g " e q p u k u v g p v " y k v j " v j g " n q p i " n k p g " q h " E q o o k u u k q p " c e v k q p u " e j c p i k p i " q t " t g f w e k p i " h t g s w g p e k u g " y j g t g " k v " j c u " h q w p f " v j c v " f q k p i " u q " k u " k p "

⁵²²ⁿ See PVKC"Ugrw0": .4242"Ngwgt"cv"50"

^{523m} Yg"uqv i jv"eq o o gpv"qp"vjgug"uvcvwwt{"eqpukfgtcvkqpu"kp"vjg"5.9 GHz NPRM" See 5.9 GHz NPRM."56"HEE"TeF"cv"34839."rctcl"560"

^{524m} 69"EHT"È"; 2059; =; see also PEVC"Eq o o gpvu"cv"33"*pqvki"vjcv"0]v_jg"ewttgpp"twngu"htq"vjg"70;" I J | "dcpf"dnqem"pqv"qpni{"Yk/Hk."dwv"cnuq"cp{"qvjgt"vgejppnqi{"vjcv"fqgu"pqv"0eq o rn{"y kvj0"vjg"CUVO"G4435/25" FUTE"Uvcfctf0+0"

^{525m} 69"WOUE0"È"5380

^{526m} 69"WOUE0"È"538*c+3+= see also California Metro Mobile Communications Inc. v. FCC."587"H05f"5:."67"*F0E0" Ekt0"4226+*0Ugevkqp"538"i tcpvu"vjg"Eq o o kuukqp"dtqcf"rqygt"vq" o qfkh{"nkegpugu00+0"

^{527m} See, e.g., MCI Telecommunications Corp. v. AT&T,"734"WO00"43:."44:.*3; ; 6+*jqnfkpi"vjcv"uvcvwwt{"0cvvj qtkv{"vq"o qfkh{"0"fqgu"pqv"eqpv o rncvg"hwppfc o gpvcn"ejcpi gu0+="Cmtv Television, Inc. v. FCC."438"H05f"3355."3362663" *F0E0" Ekt0"4222+*crrn{kp i"vjcv"tgcuqkpi"vq"ugevkqp"538"cpf"uw i i guvkpi"vjcv"ko rcktkpi"vjg"cdkknv{"qh"cnkegpugg"vq" r t q x k f g " v j g " u c o g " u g t x k e g u " c u " v j q u g " g p c d n g " f " d { " v j g " q t k i k p c n " n k e g p u g " o k i j v " d g " e q p u k f g t g f " c " h w p f c o g p v c n " e j c p i g + . " c e r t . d e n i e d . " 7 5 3 " W O U 0 " 3 2 9 3 " * 4 2 2 3 + 0 "

^{528m} See Ugevkqp"KKK0C04."suprad0"

^{529m} See, e.g., "PEVC"Pqx0"32."4242"Ex Parte cv"4/5"*pqvki"vjg"ncem"qh" FUTE"fg rnq{" o gpvu"kp"vjg"eqwvpt{"cpf" r q k v k p i " q w " v j c v " g z k u k p i " F U T E " v t k c n u " y k m m " d g " c d n g " v q " e q p v k p w g " k p " c " 5 2 " O J | " d c p f + 0 "

vjg"rdwnke"kpvtgguv^{52:}"

33:0A Vjcv"ngcxgu"qpn{"vjg"swgukqp"y jgvjgt"tgnqecvki"KVU"qrgtcvqpu"vq"vjg"wr rgt"52"
ogicjgtv|"eqpukvwvgu"c"ohwffc"ogpvcn"ejcpigö"vq"vjg"nkegpugu"qh"kpew"odgpv"FU TE"qrgtcvqpu"Ugxgtcn"
eq"o"ogpvtu"ctiwg"vjcv"kv"yqwnf."dgecwug"FU TE"tgsuktgu"vjg"gpvktg"97"ogicjgtv|"vq"rtqxfkg"c"okz"qh"
ewttgpv"uchgv{/tgnvcvgf"wugu"rnwu"hwvwtg"wugu"vjcv"ctg"wpfgt"fgxgnqr"ogp^{52:}"Yg"fkucitggö" Cnvjqwi j"
ghhgevkggn{"tgxqmkpi"c"nkegpug"qt"uwduvcvkcmm{"fktwrvkpi"c"nkegpuggö"cdknkv{"vq"rtqxfkg"ugtxkeg"oc{"
c"oqwpv"vq"c"hwffc"ogpvcn"ejcpig."eqwtvu"jcxg"tgrgcvgfn{"hqwpf"vjcv"kh"c"nkegpugg"ecp"eqpvkpwg"vq"rtqxfkg"
uwduvcvkcmm{"vjg"uc"og"ugtxkeg."c"oqfkhkecvkqp"vq"vjcv"nkegpug"ku"pqv"c"hwffc"ogpvcn"ejcpig^{52:}"Cu"gzrnckpgf"
cdqyg."qwt"tgxky"qh"vjg"gzvcpukxg"tgeqtf"kp"vjku"rtqeggfki"uwr rqtvu"qwt"eqpenwukqp"vjcv"tgnqecvki"
FU TE"nkegpuggu"vq"vjg"wr rgt"52"ogicjgtv|"qh"vjg"dcpf"y kmm"pqv"ogcckpi"hwmm{"kpvthgtg"ykvj"vjg"cdknkv{"qh"
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ewttgpvn{"gswkr rgt"ykvj"FU TE"cu"ewttgpvn{"cmmqyg"ht"wpfgt"vjg"Eq"o"okuukqpö"twngö"iö."egtvcv"hnngv"
vgj"kgu."y jke"ctg"oquvn{"kpxqnxgf"kp"rknqv"rtqlgevu."dvw"cnuc"cfkvcqpcn"eq"o"gtekn"vgj"kgu"ö"iö."hnngv"
vgj"kgu."vtwemu."ectu"vjcv"oki jv"kpqtrqtcvg"FU TE/dcugf"gswwkr"ogp"cpf"vjcv"eqwnf"dgeq"og"cxckndng"ht"
C"ogtkec"eqpuw"ogtu"qp"c"y kfgt"dcuku"cetquu"vjg"eqwvvt{"kp"vjg"hwvwtg"ö"pqv"ykvj"uvcpfki"ewttgpv"vtgpfu"d{"
ocp{"o"cpwchewtvtu"ht"kpvtqfwvckqp"qh"vjg"pgygt"E/X4Z"vgej pqqni {"^{534:}

33:0A Yjcv"ku"oqtg."vjg"vtcpukvqp"rcvj"kp"vjku"qtfgt"ku"fgukipgf"vq"ceeq"o"oqfcvg"c"vtcpukvqp"
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fguetkdg"cdqyg."yghkpf"vjcv"kv"ku"vgej pqqni"kecmm{"rquukndng"ht"KVU"vq"qrgtcvg"qp"52"ogicjgtv|"kp"vjg"
wr rgt"rctv"qh"vjg"dcpf."cu"y g"fgukipcvg"vjg"nqygt"67"ogicjgtv|"qh"vjg"70;"I J|"dcpf"ht"wpnkegpugf"wugö"
Tgeqphk|wtkpi"FU TE/dcugf"fgxkegu"d{"wrfcvkpi"ht"o"yctg"cpflqt"uqhv"yctg"ujqwnf"cmqy"ewttgpv"KVU"
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okpkok|g"cp{"fktwrvkqp."y g"rtqxfkg"c"tgcupcdng"vk"og"ht"cp{"vtcpukvqp"cevkvkvguö"Yg"y kmm"pqv"tgsuktg"

52:"Expanding Flexible Use of the 3.7 to 4.2 GHz Band."Tgrqtv"cpf"Qtfgt"cpf"Rtqrugf"Oqfkhkecvkqp."57"HEE"Te f"
4565."rctcö"348"4242+"*3.7 GHz Report and Order-"*hkpki"vjcv"ö"vjg"Eq"o"okuukqp"jcu"nqi"tgnkgf"qp"ugevqp"538"
vq"ejcpig"qt"tgfweg"vjg"htgswpkegu"wgfd{"c"nkegpugf"ugtxkeg"y jgtg"kv"jcu"hwvwtg"vjcv"fqkpi"uq"yqwnf"ugtxg"vjg"
rdwnke"kpvtgguvö"cp"fguetkdkpi"gzco"rngu"qh"uwej"Eq"o"okuukqp"cevqpö"

52:"See Ngwgt"htq"o"Uvgxgp" Iö"Dtcfdwf{"I gpgtcn"Eqwvpu."Fgrvö"qh"Vtcurqtvcvqp"vq"Vjg"J pqtcdng"Clkv"Rck."
Ejckt"ocp."HEE."GV"Eqemgv"pö"3;/35:."Cf fgpwo"cv"36"*hknkf"pö";.4242+"*öVjg"nquu"qh"67"O J|"qh"KVU"
urgewt"o"tgrtgupvu"c"hwffc"ogpvcn"ejcpig."ukpeg"kv"y kmm"tguvvn"kp"c"uki"pkhkecpv"ejcpig"kp"vjg"qxtcmm"vknkv{"qh"vjg"
dcpf"htq"o"kvu"nqi/guvcndku jgf"wugöö:"*hknkf"wpfgt"PVKc+=""Cmncpeg"ht"Cwvq"o"qvkxg"Kppqxcvqp"Eq"o"ogpvu"cv"4."55/58"
*vjg"HEE"ncemu"cwv jqtvt{"vq"cfqrv"cpf"ö"o"rng"ogp"vjg"rtqrugf"dcpf"rncp="hwffc"ogpvcn{"ejcpiki"vjg"kpew"odgpvö"
70;"I J|"nkegpugu"cu"vjg"Eq"o"okuukqp"rtqrugf"kp"vjg"5.9 GHz NPRM"y qwnf"xlqncvg"ugevqp"538"cp"534"qh"vjg"
Eq"o"wpkecvkqp"cevö"See also, e.g."C"ogtkec"Cuqekcvkqp"qh"Uvcvg"Jki jyc{"cp"Vtcurqtvcvqp"Qhhkecnu"
Eq"o"ogpvu"cv"5/6."33."37="Pcvkqpcn"Uejqnn"Vtcurqtvcvqp"Cuqqel"Eq"o"ogpvu"cv"4/5="Q"o"pkCkt"Eq"o"ogpvu"cv"3="
VgppUOCTV"Eq"o"ogpvu"cv"3="Vq{qvc"Eq"o"ogpvu"cv"9/:="WU"VC I"Eq"o"ogpvu"cv"6."34="FU TE"Cwvq"Uchgv{"Eqcnkvqp"
Eq"o"ogpvu"cv"kk="Ect"4"Ect"Eq"o"ogpvu"cv"4ö"

532"See, e.g., Cmty Television."438"Hö5f"cv"3358."3362/63"*hkpki"vjcv"vjg"Eq"o"okuukqpö"cevqp"y kmm"pqv"ghhgev"c"
ohwffc"ogpvcn"ejcpigö"y jgtg"chhgev"nkegpuggu"eqwnf"ödg"ikp"cpf"gp"vjg"vtcpukvqp"rgtkqf"dtqcfecvki"vngxkukqp"
rtqitc"okpi"vq"vjg"rdwnke"wpfgt"xgt{"uk"oknct"vgt"ouö"cp"eqwnf"örtqxfkg"guogpvkcn{"vjg"uc"og"ugtxkegu."ykvj"uq"og"
hngzkdknkv{"vq"rtqxfkg"cpkmmct{"ugtxkegu"cu"y gmm."wpfgt"vjgkt"nkegpugu"fwtkpi"vjg"vtcpukvqpöö"

533"See, e.g." PEVC"Pqxö"32."4242'Ex Parte"cv"3/:"*pqvki"vjcv"kpew"odgpv"nkegpuggu"y kmm"dg"cdng"vq"eqpvkpwg"vjgkt"
ewttgpv"qrgtcvqpu"cpf"itqy"vjqug"qrgtcvqpu"chvg"vjg"o"qvxg"vq"vjg"wr rgt"52"ogicjgtv|"cpf"vjcv"ugevqp"538"fggu"pqv"
tgsuktg"vjg"Eq"o"okuukqp"vq"tgugtxg"urgewt"o"ht"urgewncvkg"hwvwtg"ugtxkeguö"

534"See PEVC"Pqxö"32'Ex Parte"cv"5"*pqvki"vjcv"gzukvki"FU TE"ö"nkegpuggu"y kmm"dg"cdng"vq"gzrcpf"vjgkt"qrgtcvqpu"vq"
pgy"UW"nqecvqpu"cpf"ocp{"o"qtg"vgj"kgu"ecr"cdng"qh"tgegxkpi"vjgkt"FU TE"vtcpu"okuukqp"kp"c"52/ogicjgtv|"dcpf."
cnvjqwi j"vjg"cwvq"o"qvkxg"o"ctmgvö"ujkh"yc{"htq"o"FU TE"ocmgu"uwej"itqy"vjg"wpnkmm{"ööö"

535"See PEVC"Pqxö"32'Ex Parte"cv"5"*cuugtkpi"vjcv"ö"vjg"tgeqtf"uwr rqtvu"vjg"Eq"o"okuukqpö"eqpenwukqp"vjcv"gzukvki"
nkegpuggu"y kmm"dg"cdng"vq"tg"ejcppgnk|g"vjgkt"qrgtcvqpu"xlk"ht"o"yctg"cpflqt"uqhv"yctg"wr itcfguöö"

gzkuvkpi "nkegpuggu"vq"xcecvg"vug"qh"ejcppgnu"kp"vjg"nqygt"67/o g i c j g t v | "rqtvkqp"qh"vjg"70; " I J | "dcpf" k o o g f k c v g n { = "kpuvvcgf." y g " y k n n " i k x g " k p e w o d g p v " n k e g p u g g u " c " t g c u q p c d n g " c o q w p v " q h " v k o g " q h " q p g " { g c t " v q " f g x g n q r " c p f " k o r n g o g p v " c " v t c p u k v k q p " r c v j " q w v " q h " v j c v " r q t v k q p " q h " v j g " 7 0 ; " I J | " d c p f . " c u " y g " f k u e w u u " g c t n k g t " k p " v j k u " H k t u v " T g r q t v " c p f " Q t f g t . " v j g t g d { " g p u w t k p i " v j c v " v j g " k p e w o d g p v u " y k n n " d g " c d n g " v q " v t c p u k v k q p " v j g k t " u g t x k e g u " v q " v j g " w r r g t " r q t v k q p " q h " v j g " d c p f 0 " " F i n a l l y . " y g " h k p f " v j c v " v j g u g " c e e q o o q f c v k q p u " c t g " r c t v k e w n c t n { " t g c u q p c d n g " k p " n k i j v " q h " v j g " o k p k o c n " e w t t g p v " f g r n q { o g p v " q h " F U T E 0 "

3420A C v " d q v v q o . " v j g " c t i w o g p v " v j c v " v j g " E q o o k u u k q p o u " c e v k q p " c o q w p v u " v q " c " o h w p f c o g p v c n " e j c p i g o " t g u v u " q p " v j g " c u u g t v k q p " v j c v " k v " y k n n " w r g p f " v j g " f u t u r e " r n c p u " q h " F U T E " n k e g p u g g u " v q " r t q x k f g " e g t v c k p " c f x c p e g f " K V U " u g t x k e g u . " y j k e j " u q o g " e q o o g p v g t u " c t i w g " t g s w k t g " v j g " w u g " q h " v j g " h w n n " 9 7 " o g i c j g t v | " e w t t g p v n { " c m n q c e c v g f " v q " F U T E " n k e g p u g g u 0 5 3 6 " " D w v " c u " y g " g z r n c k p " c v " n g p i v j " c d q x g . " q w t " t g x k g y " q h " v j g " t g e q t f o k p e n w f k p i " v j g " j k u v q t { . " e w t t g p v " f g r n q { o g p v " q h " d c u k e " u c h g v { / t g n c v g f " F U T E / d c u g f " K V U " u g t x k e g u . " c p f " u v c v u " q h " h w w t g " r n c p u " h q t " v j g u g " c f x c p e g f " u g t x k e g u o n g c x g u " w u " w p e q p x k p e g f " v j c v " t g n q e c v k q p " v q " v j g " w r r g t " 5 2 " o g i c j g t v | " y k n n " w r g p f " c p { " e q p e t g v " d w u k p g u u " r n c p u " q h " F U T E " n k e g p u g g u 0 5 3 7 " " C u " v j g " F 0 E 0 " E k t e w k v " g z r n c k p g f " k p " f g v c k n " k p " T e l e d e s i c . " k p " o c p c i k p i " u r g e v t w o " o " d j v _ j " E q o o k u u k q p " e q t t g e v n { " e q p e g k x g u " q h " k u " t q n g " k p " r t q r j v k e " c p f " o c p c i g t k n " v g t o u o o k v " o w u v " o r t g f k e v " v j g " g h h g e v " c p f " i t q y v j " t c v g " q h " v g e j p q n q i k e c n " p g y e q o g t u " q p " v j g " u r g e v t w o . " y j k n g " u v t k m k p i " c " d c n c p e g " d g v y g g p " r t q v g e v k p i " x c n w c d n g " g z k u v k p i " w u g u " c p f " o c m k p i " t q q o " h q t " 0 " 0 " 0 " p g y " v g e j p q n q i k g u 0 5 3 8 " " K p " o c m k p i " v j k u " f g v g t o k p c v k q p . " y g " e q p e n w f g " v j c v " v j g " r q v g p v k n " f g r n q { o g p v " q h " h w w t g " c f x c p e g f " F U T E / d c u g f " K V U " u g t x k e g u " v j c v " o c { " q t " o c { " p q v " f g x g n q r " { g c t u " k p v q " v j g " h w w t g " c t g " v q q " w p e g t v c k p " c p f " t g o q v g " v q " y c t t c p v " v j g " h w t v j g t " t g u t x c v k q p " q h " u r g e v t w o " h q t " v j g k t " f g r n q { o g p v 0 " " C h v g t " 4 2 " { g c t u . " y k v j " p q " y k f g u e c n g " f g r n q { o g p v " q h " g x g p " v j g " d c u k e " x g j k e n g " u c h g v { " c r r n k e c v k q p u " v j c v " j c x g " d g g p " c x k n c d n g " h q t " { g c t u . " v j g " E q o o k u u k q p " e c p p q " t g c u q p c d n { " l w u v k h { " v j g " r t q v g e v k p " q h " u e w j " r q u u k d n g " h w w t g " f g r n q { o g p v " q h " c f x c p e g f " K V U " u g t x k e g " c v " v j g " g z r p g u g " q h " r t q x g p " c p f " o c t m g v / t g c f { " v g e j p q n q i k g u " v j c v " u v c p f " t g c f { " v q " o c m g " w u g " q h " v j g " n q y g t " 6 7 " o g i c j g t v | 0 5 3 9 "

3430A Transition to C-V2X0" V j g " E q o o k u u k q p " n k m g y k u g " j c u " v j g " c w v j q t k v { " w p f g t " V k v n g " K K K " v q " v t c p u k v k q p " q r g t c v k q p u " k p " v j g " w r r g t " 5 2 " o g i c j g t v | " h t q o " F U T E " v q " E / X 4 Z 0 " " C u " y g " g z r n c k p " c d q x g . " y g " h k p f " v j c v " v t c p u k v k q p k p i " v q " E / X 4 Z " k u " k p " v j g " r w d n k e " k p v g t g u v 0 5 3 . " " Y g " p q v g " v j c v " v j g " g z g t e k u g " q h " q w t " c w v j q t k v { " w p f g t " V k v n g " K K K " v q " v t c p u k v k q p " q r g t c v k q p u " v q " c " p g y " v g e j p q n q i { " k u " e a p u k u v g p v " y k v j " r c u v " E q o o k u u k q p " c e v k q p u " o q f k h { k p i " v g e j p k e c n " q r g t c v k q p c n " t w n g u " c p f " o c p f c v k p i " v j g " w u g " q h " p g y g t " v g e j p q n q i k g u " v q " o c z k o k | g " u r g e v t c n " g h h k e g p e { 0 5 3 . " " N k e g p u g u " k p " v j g " 7 0 ; " I J | " d c p f " c t g " h q t " v j g " r t q x k u k q p " q h " K V U " u g t x k e g u . " h q t " y j k e j " v j g "

536" See, e.g., CV (V)Eq o o g p v u " c v " 6 " * c m n q c e c v k p i " 5 2 " o g i c j g t v | " v q " v j g " K V U " y q w n f " c m n q y " d q v j " v g e j p q n q i k g u " v q " u w r r q t v " v j g " D u k e " U c h g v { " O g u u c i g . " c n v j q w i j " k v " y q w n f " r t g e n w f g " v j g k t " w u g " h q t " c f x c p e g f " K V U " c r r n k e c v k q p u " * i . e . . " p q v " v j g " d c u k e " u c h g v { / q h / n k h g l r t q r g t v { " c r r n k e c v k q p u " e a p v g o r n c v g f " y j p v " v j g " u g t x k e g " y c u " c w v j q t k | g f + " c p f " v j g " g x q n w v k q p " q h " E / X 4 Z " v q " 7 I + = " C o g t k e c p " C u u q e k e v k q p " q h " U v c v g " J k i j y c { " c p f " V t c p u r q t v c v k q p " Q h h k e c n u " E q o o g p v u " c v " 3 7 " * v j g " E q o o k u u k q p " r t q r q u c n " t g r t g u g p v u " c " h w p f c o g p v c n " e j c p i g " v q " v j g " v g t o u " q h " v j g " F U T E " n k e g p u g u " d g e c w u g " k v " y q w n f " n g c x g " k p u v h h k e g p v " d c p f y k f v j " h q t " v j g " g h h g e v k x g " f g x g n q r o g p v " q h " v j g " r n c p p g f " u c h g v { " c r r n k e c v k q p u + 0 "

537" Cu " p q v g f " c d q x g . " v j g " h q e w u " q h " q w t " u g e v k q p " 5 3 8 " k p s w k t { " k u " v j g " g h h g e v " q h " q w t " r t q r q u c n " q p " F U T E " u g t x k e g " c w v j q t k | g f " w p f g t " q w t " g z k u v k p i " n k e g p u k p i " t w n g u o p q v " v j g " r t q r g e v u " h q t " c " r t q r q u g f " p g y " E / X 4 Z " u g v " q h " u g t x k e g u " p q v " e w t t g p v n { " c w v j q t k | g f " w p f g t " v j g " t w n g u 0 "

538" Teledesic. "497" H05f cv": 60"

539" See, e.g., PEVC" Pqx0" 32" Ex Parte cv" 5/8" *gzrnckpki "vjg"ncem"qh"pcvkqpykfg"fg r n q { o g p v " q h " F U T E / d c u g f " K V U " u g t x k e g u + 0 "

53: "Cu" y g " f k u e w u u " c d q x g . " s e e s u p r a " c v " U g e v k q p " E 0 3 . " c u " r c t v " q h " q w t " c p c n { " u k u " q h " v j g " o q u v " u r g e v t c m n { " g h h k e g p v " w u g " q h " v j g " d c p f . " y g " h k p f " k v " k p " v j g " r w d n k e " k p v g t g u v " v q " c f q r v " c " u k p i n g " K V U " u v c p f c t f " v q " t g o q x g " c p { " v g e j p q n q i k e c n " e q o r o v k d k n k v { " k u u w g u " c p f " g p u w t g " c " u c h g t " x g j k e w n c t " u c h g v { " g e q u { u v g o 0 " " Y g " c t g " u g g m k p i " e q o o g p v " q p " v j g " f g v c k n u " q h " v j k u " v t c p u k v k q p " k p " v j g " H w t v j g t " P q v k e g " q h " R t q r q u g f " T w n g o c m k p i 0 "

53: "See, e.g., Committee for Effective Cellular Rules v. FCC." 75" H05f" 352; .353; /42" *F0E0" Ekt0" 3; ; 7+ " *w r j q n f k p i " v g e j p k e c n " t w n g " o q f k h k e c v k q p u " v j c v " g h h g e v k x g n { " k p e t g c u g f " u g t x k e g " c t g u " q h " k p e w o d g p v " n k e g p u g u + = " R e p l a c e m e n t o f P a r t 9 0 b y P a r t 8 8 . " T g r q t v " c p f " Q t f g t " c p f " H w t v j g t " P q v k e g " q h " R t q r q u g f " T w n g " O c m k p i . " 3 2 " H E E " T e f " 3 2 2 9 8 " * 3 ; ; 7 + " * g u v c d n k u j k p i " c " p c t t q y d c p f " e j c p p g n " r n c p " h q t " k p e w o d g p v " r w d n k e " n c p f " o q d l n g " t c f k q " u g t x k e g " * R N O T U + " n k e g p u g u . " c n q p i " y k v j " p g y " * e q p v k p w g f i 0 + "

Eq o o kuukqp"jcu"tgs wktgf"vjg" wug"qh" FUTE"vge j p q n q i { 0" "Kp"tgxkukp i "qwt"twngu"vq"tgs wktg"KVU"nkegpuggu"vq" wug"qh"E/X4Z"vge j p q n q i { . "y g"ctg"cev k p i "rwtuwc p v"vq"qwt"dtqc f"Vkvng"KKK"ur g e v t w o " o p c i g o g p v"cwv j q t k v { " c p f"eqpukv g p v"y k v j "qwt"q d n k i c v k q p"vq"o i g p g t c m n { "g p e q w t c i g"v j g"n c t i g t"c p f" o q t g"ghh g e v k x g" w u g"q h"t c f k q"k p" v j g"r w d n k e"k p v g t g u v 0 5 4 2 "

3440A V j g" C n n k p e g" h q t" C w v q o q v k x g" k p p q x c v k q p" c p f" K V U" C o g t k e c" e n c k o " v j c v" k h" v j g" E q o o k u u k q p" c f q r v u" c" d c p f" r n c p" v j c v" r t q x k f g u" p q" u r g e v t w o " h q t" K V U" n k e g p u g u" w u k p i " F U T E" v g e j p q n q i { . " v j g p" v j g" n k e g p u g u" g h h g e v k x g n { " y k n n" d g" t g x q m g f" c p f" v j w u" v j g" E q o o k u u k q p" y q w n f" g z e g g f" k v u" u g e v k q p" 5 3 4" c w v j q t k v { 0 5 4 3 " " J q y g x g t. " q w t" f g e k u k q p u" v q f c { " f q" p q v" t g r t g u g p v" c" v g t o k p c v k q p" q h" F U T E" n k e g p u g u" " N k e g p u g u" y k n n" e q p v k p w g" v q" d g" c d n g" v q" r t q x k f g" v j g" u c o g" x g j k e w n c t" u c h g v { " u g t x k e g u" q p" v j g" w r r g t" 5 2" o g i c j g t v | " q h" v j g" d c p f" v j c v" v j g { " r t q x k f g" w p f g t" v j g" e w t t g p v" K V U" d c p f" f g u k i p c v k q p. 5 4 4 " c p f" v j g" w n v k o c v g" v t c p u k v k q p" h t q o " F U T E" v q" E / X 4 Z" y k n n" u k o k n c t n { " p q v" t g u w n v" k p" c p { " e j c p i g" k p" q t" t g f w e v k q p" q h" x g j k e w n c t" u c h g v { " u g t x k e g u" " N k e g p u g u" v j c v" q r g t c v g" w p f g t" v j g" p g y" v g e j p k e c n" t w n g u" y k n n" o c k p v c k p" v j g" u c o g" t g p g y c n" g z r g e v c p e { " v j g { " j c x g" v q f c { 0 5 4 5 " " H w t v j g t o q t g. " y g" c t g" r t q x k f k p i" h n g z k d k n k v { " h q t" K V U" n k e g p u g u" v q" e j q q u g" v q" o k i t c v g" v q" E / X 4 Z" v g e j p q n q i k g u" k p" v j g" w r r g t" 5 2" o g i c j g t v | " u q p g t" v j c p" t g s w k t g f" d { " q w t" t w n g u" k h" v j g" E / X 4 Z" q r g t c v k q p u" y q w n f" p q v" k p v g t h g t g" y k v j" c p { " g z k u v k p i" K V U" n k e g p u g g" v j c v" e q p v k p w g u" v q" w u g" F U T E" d c u g f" v g e j p q n q i { " d g h q t g" k v" w n v k o c v g n { " v t c p u k v k q p u" v q" E / X 4 Z" 0 "

3450A Other statutory considerations. E k u e q" c t i w g u" v j c v" v j g" E q o o k u u k q p" o w u v" g z r n c k p" j q y" k v u" t g r w r t r q u k p i" q h" v j g" 7 0 ; " I J | " d c p f" y k n n" d g" e q p u k v g p v" y k v j" v j g" f k t g e v k x g u" q h" v j g" V t c p u r q t v c v k q p" G s w k v { " C e v" h q t" v j g" 4 3 u v" E g p w t { " * V G C + . 5 4 6 " c p f" j q y" v j g" t g x k u g f" t w n g u" y k n n" e q p v k p w g" v q" h q u v g t" v j g" q d l g e v k x g u" k f g p v k h k f" d { " v j g" W 0 U 0 " F Q V" k p" k v u" k o r n g o g p v c v k q p" q h" v j g" V G C 5 4 7 " U k o k n c t n { . " v j g" C n n k p e g" h q t" C w v q o q v k x g" k p p q x c v k q p" c t i w g u" v j c v" v j g" t g c m n q e c v k q p" q h" u r g e v t w o " y g" c f q r v" j g t g" g z e g g f u" v j g" E q o o k u u k q p o u" c w v j q t k v { " d { " o w p f g t e w w k p i" F Q V o u" c w v j q t k v { " v q" k o r n g o g p v" v j g" p c v k q p y k f g" K V U" r t q i t c o 0 5 4 8 " " C u" v j g" C n n k p e g" h q t" C w v q o q v k x g" k p p q x c v k q p" c e m p q y n g f i g u. " k p" v j g" V G C. " E q p i t g u u" f k t g e v g f" v j g" E q o o k u u k q p" v q" e q p u k f g t. " k p" e q p u w n v c v k q p" y k v j" v j g" U g e t g v c t { " q h" v j g" W 0 U 0 " F Q V. " u r g e v t w o " p g g f u" h q t" v j g" q r g t c v k q p" q h" v j g" K V U. " k p e n w f k p i" u r g e v t w o " h q t" v j g" f g f k e c v g f" u j q t v" t c p i g" x g j k e n g" v q" y c { u k f g" y k t g n g u u" u v c p f c t f 0 " " J q y g x g t. " v j g" V G C" f k f" p q v" t g s w k t g" v j c v" v j g" E q o o k u u k q p" f g u k i p c v g" v j g" 7 0 ; " I J | " d c p f" o " q t" c p { " d c p f" o" h q t" K V U. " q p n { " v j c v" v j g" "

g s w k r o g p v" v { r g" c e e g r v c p e g" t g s w k t g o g p v u. " v q" v t c p u k v k q p" g z k u v k p i" c p f" p g y" R N O T U" u g t x k e g u" v q" o q t g" u r g e v t c m n { " g h h k e g p v" v g e j p q n q i k g u + 0 " See also Expanding Flexible Use of the 3.7 to 4.2 GHz Band. " T g r q t v" c p f" Q t f g t" c p f" R t q r q u g f" O q f k h k e c v k q p. " 5 7" H E E" T e f. " 4 5 6 5" * 4 2 4 2 + " * f g v g t o k p k p i" v j c v" k p e w o d g p v" u c y g n k v g" n k e g p u g u" e q w n f" d g" t g n q e c v g f" v q" u o c m n g t" r q t v k q p" q h" E / d c p f" y k v j q w v" t g u v t e v k p i" v j g" c d k n k v { " q h" k p e w o d g p v u" v q" r t q x k f g" e q o r c t e d n g" u g t x k e g. " k p" r c t v" d g e c w u g" q h" c x c k n e d k n k v { " q h" e q o r t g u u k q p" v g e j p q n q i k g u + 0 "

542" 69" W 0 U 0 E 0 " E " 5 2 5 * i + 0 "

543" C n n k p e g" h q t" C w v q o q v k x g" k p p q x c v k q p" E q o o g p v u" c v" 5 8 = " K V U" C o g t k e c" E q o o g p v u" c v" 3 7 0 " See also I g p g t c n" O q v q t u" E q o o g p v u" c v" 3 5 * e w w k p i" 8 2 " " q h" v j g" K V U" u r g e v t w o " o c { " x k q n c v g" u g e v k q p" 5 3 4 + 0 " U g e v k q p" 5 3 4" q h" v j g" E q o o w p k e c v k q p u" C e v" u g v u" q w v" v j g" E q o o k u u k q p o u" c w v j q t k v { " v q" t g x q m g" c" n k e g p u g 0 " See" 6 9" W 0 U 0 E 0 " E " 5 3 4 0 "

544" See P E V C" P q x 0 " 3 2" E x P a r t e" c v" 8 / 9 " * c i t g g k p i" y k v j" v j g" E q o o k u u k q p" v j c v" o c" n k e g p u g" o q f k h k e c v k q p" u v k n n" r t q x k f k p i" 5 2" o g i c j g t v | " v q" f g n k x g t" v j g" u c h g v { / t g n c v g f" u g t x k e g u" v j c v" j c x g" d g g p" v j g" h q e w u" q h"] F U T E. " v g e j p q n q i { " h q t" { g c t u o" k u" p q v" c" h w p f c o g p v c n" e j c p i g" v q" g z k u v k p i" F U T E" n k e g p u g u + 0 "

545" Y g" p q v g" j g t g" v j g" r c t v k e w n c t v k g u" q h" K V U" n k e g p u k p i 0 " T q c f u k f g" w p k v u" * T U W u + " c t g" k p f k x k f w c m n { . " i g q i t c r j k e c n n { " n k e g p u g f. " y j k n g" q p" d q c t f" w p k v u" * Q D W u + " c t g" n k e g p u g f" d { " t w n g 0 " " See" 6 9" W 0 U 0 E 0 " E " 5 2 3 * g + * 3 + " * c w v j q t k | k p i" v j g" E q o o k u u k q p" v q" c w v j q t k | g" o d { " t w n g 1 " v j g" q r g t c v k q p u" q h" t c f k q" u v c v k q p u" y k v j q w v" k p f k x k f w c n" n k e g p u g u o" k p" u r g e k h k e" t c f k q" u g t x k e g u + " 6 9" E H T" E" ; 7 0 5 2 7 0 " " V q" v j g" g z v g p v" v j c v" y g" f q" u j q t v g p" v j g" v g t o u" q h. " v g t o k p c v g" q t" o q f k h { " v j g" t g p g y c n" g z r g e v c p e { " q h" t q c f u k f g" w p k v" n k e g p u g u. " v j g" E q o o k u u k q p o u" d t q c f" t g i w n c v t { " c w v j q t k v { " e q x g t u" v j g" e q o r c t e d n g" o q f k h k e c v k q p" q h" v j g" t g n c v g f" n k e g p u g / d { / t w n g" u g t x k e g" v j t q w i j" v j g" t w n g o c m k p i" r t q e g u 0 " " J g t g. " v j g" h c v g" q h" v j g" q p" d q c t f" w p k v u. " c u" v j g" n k e g p u g f" d { " t w n g" f k o g p u k q p" q h" v j g" K V U. " y q w n f" d g" v k g f" v q" v j c v" q h" v j g" t q c f u k f g" w p k v u. " c u" v j g" k p f k x k f w c m n { " n k e g p u g f" f k o g p u k q p 0 "

546" R w d 0 " N 0 3 2 7 / 3 9 : . E " 7 4 2 8 * h + . " 3 3 4" U v c v 0 " 3 2 9 * 3 ; ; : + 0 "

547" E k u e q" E q o o g p v u" c v" 7 / 8 0 "

548" N g w g t" h t q o " U e q w" F g n c e q w t v. " e q w p u g n" v q" v j g" C n n k p e g" h q t" C w v q o q v k x g" k p p q x c v k q p. " v q" O c t n g p g" J 0 " F q t v e j. " U g e t g v c t { . " H E E" c v" 3 * Q e v 0 " 5 2. " 4 2 4 2 + 0 "

Eq o o kuukqp "consider" fqkpi "uq0549" Vjg VGC "fktgevgf" vjg Eq o o kuukqp "vq" eq o r ngvg "c" twng o cmkpi "qp" KVU "urgetw o "d { "Lcpwct { "3. "4222. " y jke j "kv" fkf054: "Vj cv" y cu" cmm" vj cv" Eqpi tguu" tgs wktgf "hqt" vjg "Eq o o kuukqp" vq" ce jkgxg "kvu" uvcvwt { "f wvku0" D { "eqpvtcu. " vjg Eq o o wpkecvkqpu "Cev" i kxgu" vjg Eq o o kuukqp "dtqcf" cwv j qtkv { "vq" gpuwtg" vjg ghhkek gpv" wug" qh" urgetw o "kp" vjg rwdnke "kpvgtguv054: "Eqpvtct { "vq" vjg Cnnkpege "hqt" Cwv g o qv kxg" kppqxcvkqpou" enck o u. " vjg Eq o o kuukqpou" fgekukqp" vqfc { "ku" pqv" kp" eqphnkev" y kvj "cp { "tqng" cuuk i pgf" vq" kv" d { "Eqpi tguu. " pqt" f qgu" vjg "cev" qp" y g" vcmg" vqfc { "kphktkpi g" qp" FQVou" cdnkkv { "vq" eqpvkpwg" vq" cf o kpkuvgt" vjg "KVU" r tqi tc o 0" Vjg "cev" qp" y g" vcmg" qp" vjg "urgetw o " y g" fguk i pcvgf" hqt" KVU" ku" fppg" rwtuwcpv" vq" qwt" i gpgtcn" cwv j qtkv { "vq" cev" kp" vjg rwdnke "kpvgtguv. " eqpxgpkppeg" cpf" pgeguukv { . " y jke j. " cu" vjg "F0E0" Ektewkv" j cu" gznckpgf. " ku" vjg "uqtv" qh" urgetw o " o cpc i g o gpv" kuuwg" hqt" y jke j " vjg Eq o o kuukqpou" cwv j qtkv { "ku" cv" kvu" | gpkvj 0552"

3460A KVU "C o gktec" enck o u" vj cv" dcugf" qp" eqpegtpu" gz r tguugf" d { " vj g" W0U0" FQV" cpf" qvj gt" vtcpurqtvevkqp" uchgv { "gz rgtv. " cf qrvkpi " qwt" rtrqrucn" vq" tgfweg" vjg "c o qwpv" qh" KVU" urgetw o " kp" vj g" 70; " I J | " dcpf" y qwnf" pqv" ucvkvh { " vj g" tgs wktg o gpvu" qh" ugev" qp" 3" qh" vj g" Eq o o wpkecvkqpu "Cev" cu" kv" tgcvcvu" vq" vj g" Eq o o kuukqpou" tgu rqpukdnkv { "vq" o cpc i g" urgetw o " vq" gpuwtg" uchgv { /qh/nkhg" cpf" rtrqrgtv { "vj tqw i j" vj g" wug" qh" yktg" cpf" tc fkv" eq o o wpkecvkqpu0553" Y g" fkuc i tgg0" Vj g" tgeqtf" u j q y u" uk i pkhkecpv" uwr r qtv" hqt" gpuwtkp i " uchgv { "qh" nkhg" cpf" rtrqrgtv { "vj tqw i j" vj g" wug" qh" KVU" kp" vj g" wr rgt" 52" o g i c j gtv | "qh" vj g" dcpf. " cmmq kp i " wu" vq" tgrwtrqvg" vj g" nq y gt" 67" o g i c j gtv | "qh" vj g" dcpf" hqt" wpnkegpugf" qr gtcvkqpu0" Hwtv jgt o qtg. " y g" fkuc i tgg" y kvj " KVU" C o gktec" ou" i i guvkqp" vj cv" ugev" qp" 3" qh" vj g" Eq o o wpkecvkqpu "Cev" dkpfu" vj g" Eq o o kuukqp" uq" vj cv" kv" o c { " qpn { " o qfkh { " 70; " I J | " dcpf" nkegpugu" eqpukuvgpv" y kvj " W0U0" FQVou" tgeq o o gpfcvkqpu0554" KVU" C o gktec" cr r gctv" qh" wpf" o g pvcn { " o kuw p f g t u v c p f" vj g" tqng" Eqpi tguu" chhqtg f g f" vj g" Eq o o kuukqp" vq" qxgtugp" pqp/ hgfgtcn" wug" qh" urgetw o " *kpenw f kpi " uvcv" cpf" nqecn" i qxgtp o g pvcn" urgetw o " wug+. " y j g v j g t" hqt" rwdnke" uchgv { " qt" eq o o gtekc n" rwr r q u g l 0555"

E. Benefits and Costs: Economic Analysis

3470A Y g" jcxg" t g x k g y g f" vj g" d g p g h k v u" qh" t g r w r r q u k p i " vj g" n q y g t " 67" o g i c j g t v | " qh" vj g" 70; " I J | " dcpf" hqt" wpnkegpugf" wug" cpf" vj g" fktgev" equu" cuuqekcvgf" y kvj " vtc p u k v k p k p i " g z k u v k p i " K V U " n k e g p u g g u" v q" vj g" w r r g t " 52" o g i c j g t v | " qh" vj g" dcpf0" Vj g" g x k f g p e g" n g c f u" vq" vj g" eqpenwukqp" vj cv" vj g" d g p g h k v u. " k p" v g t o u" qh" p g y " g e a p p o k e" c e v k x k v { . " c t g" y g m n" c d x g" vj g" e q u v u 0 " Y g" g z r g e v" vq" t g c n k | g" u w d u v c p v k c n" d g p g h k v u" d { " g z r c p f k p i " Y k / H k " e c r c e k v { 0 " G x g p" w u k p i " c " j k i j n { " e q p u g t x c v k x g" c r r t q c e j " v q" e c n e w n c v g" d g p g h k v u. " y g" c p v k e k r c v g" c " r t g u g p v" x c n w g" qh" c r r t q z k o c v g n { "& 8" d k n k q p" k p" d g p g h k v u" k p" g c e j " qh" vj g" { g c t u " 4245 / 4247. " q t " & 3904 " d k n k q p" q x g t " vj c v " v k o g" h t c o g l 0556" Y g" r t g u g p v" vj g" o g v j q f q n q i { " c p f" u v g r u" w p f g t n { k p i " vj k u" e c n e w n c v k q p" k p" C r r g p f k z " E 0 " Y g" c n u q" p q v g" vj cv" wpnkegpugf" wug" qh" vj g" 70; " I J | " dcpf" o c { " n g c f" vq" d g p g h k v u" y g m n" d g { q p f " 4247. " y j k e j " w p f g t u e q t g u" vj g" e q p u g t x c v k x g" p c v w t g" qh" q w t" g u v k o c v g u 0 " C v " vj g" u c o g" v k o g. " d { " r t g u g t x k p i " vj g" w r r g t " 52" o g i c j g t v | " hqt" KVU. " y g" c t g" r g t o k w k p i " e w t t g p v" c p f" h w w t g" n k e g p u g g u" v q" e q p v k p w g" v q" q h h g t" u w e j " u g t x k e g" k p" vj g" d c p f 0 " Y g" vj g t g h q t g" v c m g" k p v q" e q p u k f g t c v k q p" vj g" q p g / v k o g" v t c p u c e v k q p" e q u u" c u u q e k c v g f" y kvj " k p e w o d g p v" n k e g p u g g u" v t c p u k v k p k p i "

549" Kpfggf. "Ekueq"cf o kvu" vj cv" kv" ku" vtwg" vj g"]VGC_ " f k f" p q " e c n n" q w v" vj g" 70; " I J | " d c p f" q t " t g s w k t g" c p { v j k p i " q v j g t " v j c p " c " t w n g o c m k p i " r t q e g g f k p i " d g " e q p f w e v g f 0 6 " I d. " c v " p 0 6 0 "

54: "Amendment of Parts 2 and 90 of the Commission's Rules to Allocate the 5.850-5.925 GHz Band to the Mobile Service for Dedicated Short Range Communications of Intelligent Transportation Services." GV" Fqemgv" Pq0" ; : / ; 7. " T O / ; 2 ; 8. " T g r q t v" c p f " Q t f g t. " 36 " H E E " T e f " 3 : 443 * 3 ; ; ; + * 1999 D S R C A l l o c a t i o n R & O + 0 "

54: "See, e.g., "69" W0U0E0E" 525. "529. "52; 0"

552"69" W0U0E0E" 525="Teledesic. "497" H05f" cv"9; 0"

553"KVU" C o g t k e c E q o o g p v u " c v " k k / k k k. " 34 / 370 "

554"KVU" C o g t k e c E q o o g p v u " c v " k k / k k k. " 34 / 370 "

555"69" W0U0E0E" 3730"

556" Vj ku" urgekhekcvkqp" fkuqwpvu" d g p g h k v u" d { " 9 " " g c e j " { g c t 0 " " S e e " Q h h k e g" qh" O c p c i g o g p v" c p f " D w f i g v. " E k t e w n c t " C / 6. " R e g u l a t o r y A n a l y s i s. " 55 " * U g r v 0 " 39. " 4225+. " j w r u c l l q d c o c y j k v g i q w u g o c t e j k x g u 0 i q x l q o d l e k t e w n c t u a c 226 a c / 61 q 0 " * Q O D " E k t e w n c t " C / 6 " * u v c v k p i " vj cv" c" t g c n" f k u e q w p v" t c v g" qh" 9 " " u j q w n f" d g" w u g f" c u" c" d c u g / e c u g" h q t" t g i w n c v q t { " c p c n { u k u + 0 " " K h" y g" k p u v g c f" f k u e q w p v" d { " 5 " . " vj g" r t g u g p v" x c n w g" qh" d g p g h k v u" q x g t " 4245 / 4247" ku" & 3 ; 05" d k n k q p 0 "

vjgkt"qrqtcvkqpu"vq"vjg"wr rrgt"52" o g i c j g t v | "q h " u r g e v t w o .⁵⁵⁷" c p f " f g v g t o k p g " v j c v " v j g u g " e q u v u " c t g " u k i p k h k e c p v n { " n g u u " v j c p " v j g " r t g u g p v " x c n w g " q h " v j g " d g p g h k v u 0 "

1. Record

3480A Benefits" Rtqrqppgvu"qh"vjg"Eq o o kuukqp"rtqrqucn" i g p g t c n n { " t g h g t " v q " c " T C P F " E q t r q t c v k q p " u w w f { " * T C P F " 7 0 ; " I J | " U v w f { + " y j k e j " h k p f u " v j c v " t g r w t r q u k p i " v j g " 7 0 ; " I J | " h q t " w p n k e g p u g f " w u g " e q w n f " i g p g t c v g " d g v y g g p " & : 4 0 4 " d k n k q p " c p f " & 3 : ; 0 ; " d k n k q p " k p " g e a p p o k e " y g n h c t g " r g t " { g c t .⁵⁵⁸ " q t " v j g " u w d u v c p v k c n n { " n q y g t " d g p g h k v u " g u v k o c v g " q h " c r r t q z k o c v g n { " & 4 : " d k n k q p " d g v y g g p " 4 2 4 4 " c p f " 4 2 4 7 " r w w " h q t v j " d { " Y k H k H q t y c t f " * 4 2 4 2 " Y k H k H q t y c t f " U v w f { +⁵⁵⁹ " v q " c t i w g " v j c v " e q u v u " t g n c v g f " v q " v j g " c w v q o q v k x g " k p f w u v t { " y g t g " u o c n n " d { " e q o r c t u q p " " E q p x g t u g n { . " c f x q e c v g u " h q t " K V U " c t i w g f " v j c v " w p n k e g p u g f " d g p g h k v u " r w w " h q t v j " k p " v j g u g " u w w f k g u " y g t g " q w v y g k i j g f " d { " v j q u g " q h " t g v c k p k p i " v j g " d c p f " h q t " K V U " 5 5 : " " Y j k n g " h g y " e q o o g p v g t u " f k u r w w g f " v j g " d g p g h k v u " r w w " h q t v j " d { " T C P F " c p f " Y k H k H q t y c t f .⁵⁵ : " d g n q y . " y g " r t g u g p v " q w t " q y p " g u v k o c v g . " y j k e j " g t t u " v q y c t f " w p f g t g u v k o c v k p i " d g p g h k v u " d { " w u k p i " c p " c r r t q c e j " v j c v " n k m g n { " q x g t e q w p v u " r t q u r g e v k x g " w u c i g " q h " v j g " 8 " I J | " d c p f " c p f " q o k v u " x c t k q u " e q p u w o g t " d g p g h k v u " c u " y g n n " c u " d g p g h k v u " v j c v " e q w n f " d g " c e j k g x g f " r t k t q " v q " 4 2 4 5 " q t " c h v g t " 4 2 4 7 0 "

3490A Qv j g t " e q o o g p v g t u " u w r r q t v k p i " v j g " E q o o k u u k q p o u " r t q r q u c n " t g h g t " v q " v j g " g e a p p o k e " x c n w g " q h " Y k / H k " k p " i g p g t c n " c p f " v j g " p w o g t q w u " w u g " e c u g u " v j c v " Y k / H k " g p c d n g u l o⁵⁶² " E q o o g p v g t u " c t i w g " v j c v " k p e t g c u g f " Y k / H k " e c r c e k v { " y k n n " c m q y " p g y " f c v c / k p v g p u k x g " k p v g t p g v " q h " V j k p i u " c r r n k e c v k q p u⁵⁶³ " c p f " e q o r n g o g p v " 7 I " f g x g n q r o g p v " d { " h c e k n k v c k p i " v j g " q h h / n q c f k p i " q h " c " i t q y k p i " r g t e g p v c i g " q h " o q d k n g " v t c h h k e l o⁵⁶⁴ " " Q v j g t " Y k / H k "

⁵⁵⁷"U r g e k h k e c n n { . " y g " n k o k v " e q u v " e q p u k f g t c v k q p u " v q " v j g " e q u v u " q h " v t c p u k v k p k p i " g z k u v k p i " n k e g p u g u " v q " v j g " w r r r g t " 5 2 " o g i c j g t v | " q h " v j g " 7 0 ; " I J | " d c p f " 0 " C u " f k u e w u u g f " d g n q y . " y g " f q " p q v " t e e q i p k | g " c f f k v k p c n " e q u v u " q h " v t c p u k v k p k p i " v q " E / X 4 Z " q t " k t t g e q x g t c d n g . " u w p m " e q u v u " " I n f r a " r c t c l " 3 6 5 0 " P q t " f q " y g " t e e q i p k | g " e q u v u " c u u q e k c v g f " y k v j " c f x c p e g f " c r r n k e c v k q p u " y k v j q w w " f g o q p u v t c v k p " v j c v " u w e j " c r r n k e c v k q p u " y q w n f { " k g n f " d g p g h k v u " c d q x g " c p f " d g { q p f " v j q u g " c n t g e f { " c p v k e k r c v g f " h t q o " d c u k e " K V U " c p f " p q p / K V U " u c h g v { " c r r n k e c v k q p u " " I n f r a " r c t c l " 3 6 2 0 "

⁵⁵⁸"N g w g t " h t q o " F k c p e " I g j n j c w u " E c t g y . " F q e v q t c n " H g m q y . " T C P F " E q t r q t c v k q p . " v q " O c t n g p g " J 0 " F q t v e j . " U g e t g v c t { . " H E E . " G V " F q e m g v " P q 0 " 3 5 / 6 ; . " C w c e j 0 " c v " z " * h k n g f " F g e l " 3 5 . " 4 2 3 : + * T C P F " 7 0 ; " I J | " U v w f { + = " s e e " Q r g p " V g e j p q n q i { " K p u k v w w g " c p f " R w d n k e " M p q y n g f i g " E q o o g p v u " c v " 3 2 = " V g e j H t g f q o " c v " 7 = " s e e a l s o " N g w g t " h t q o " V j q o c u " C 0 " U e j c v | . " R t g u k f g p v . " E k v k | g p u " C i c k p u v " I q x g t p o g p v " Y c u g . " g v " c n l . " v q " C l k v " R c k . " E j c k t o c p . " H E E . " G V " F q e m g v " P q 0 " 3 ; / 3 5 : . " c v " 4 " * h k n g f " F g e l " 6 . " 4 2 3 ; + * E C I Y . " g v " c n l " F g e l " 6 . " 4 2 3 ; " E x P a r t e + * e n c k o k p i " v j c v " o r g p k p i " v j g " 7 0 ; " I J | " u r g e v t w o " h q t " w p n k e g p u g f " w u g " y k n n " e q p v t k d w g " w r " v q " & 3 2 2 " d k n k q p " v q " I F R o + 0 "

⁵⁵⁹"T c w n " M c v | . " V g n g e q o " C f x k u q t { " U g t x k e g u . " N N E . " C u u g u k p i " v j g " G e a p p o k e " X c n w g " q h " W p n k e g p u g f " W u g " k p " v j g " 7 0 ; " I J | " (" 8 " I J | " D e p f u " c v " 7 * " C r t 0 " 4 2 4 2 + . " j w r < l i y k h k h q t y c t f 0 q t i l y r / e q p v g p v l w n r q c f u l 4 2 4 2 | 2 6 1 7 0 ; / 8 0 2 / H K P C N / h q t / f k u t k d w k q p 0 r f i " * 4 2 4 2 " Y k H k H q t y c t f " U v w f { + = " s e e " E C I Y " T g r n { " c v " 4 = " E q o e c u v " T g r n { " c v " 8 = " K E N G " T g r n { " c v " 5 = " P E V C " T g r n { " c v " 8 3 / 8 4 = " N g w g t " h t q o " D e t v n g v " E n g n c p f . " G z g e w k x g " F k t g e v q t . " K p p q x c v k q p " G e a p p o { " K p u k v w w g . " g v " c n l . " v q " C l k v " R c k . " E j c k t o c p . " H E E . " G V " F q e m g v " P q 0 " 3 ; / 3 5 : . " c v " 3 " * h k n g f " C r t 0 " 4 9 . " 4 2 4 2 + 0 "

⁵⁵"C o g t k e c p " C u u q e k c v k q p " q h " U v c v g " J k i j y c { " c p f " V t e p u r q t v c v k q p " Q h h k e c n u " E q o o g p v u " c v " 4 3 = " J p p f c " E q o o g p v u " c v " 3 2 = " K G G G " 3 8 2 ; " Y q t m k p i " I t q w r " E q o o g p v u " c v " 5 = " K V U " q h " C o g t k e c " * K V U " C o g t k e c + " E q o o g p v u " c v " 4 6 = " P g y " [q t m " E k v { " E q o o g p v u " c v " 5 = " W U " V C I " E q o o g p v u " c v " 6 = " Y c u j k p i v a p " U v c v g " F Q V " E q o o g p v u " c v " 5 = " F t 0 " T k e j c t f " T q { " T g r n { " c v " 5 = " K V U " C o g t k e c " T g r n { " c v " 3 5 0 "

⁵⁵"U q o g " e q o o g p v g t u " c t i w g " v j c v " v j g " T C P F " g u v k o c v g u " c t g " d c u g f " q p " Y k / H k " w u c i g " k p " c m " 9 7 " o g i c j g t v | " q h " v j g " 7 0 ; " I J | " d c p f " t c v j g t " v j c p " 6 7 " o g i c j g t v | " c u " v j g " E q o o k u u k q p " r t q r q u g f 0 " " S e e , e . g . " F { p c o k e " U r g e v t w o " C n k c p e g " E q o o g p v u " c v " 5 = " K G G G " 3 8 2 ; " Y q t m k p i " I t q w r " E q o o g p v u " c v " 6 = " K V U " C o g t k e c " E q o o g p v u " c v " 4 6 = " R c p c u a p k e " E q o o g p v u " c v " 3 2 = " W U " V C I " E q o o g p v u " c v " 6 0 "

⁵⁶²"P E V C " E q o o g p v u " c v " 4 9 . " p 0 3 2 ; = " Q r g p " V g e j p q n q i { " K p u k v w w g " c p f " R w d n k e " M p q y n g f i g " E q o o g p v u " c v " ; . " p 0 3 6 = " E q o e c u v " T g r n { " c v " 7 0 "

⁵⁶³"P E V C " E q o o g p v u " c v " 7 = " Q r g p " V g e j p q n q i { " K p u k v w w g " c p f " R w d n k e " M p q y n g f i g " E q o o g p v u " c v " 3 2 0 "

⁵⁶⁴"E C I Y . " g v " c n l " F g e l " 6 . " 4 2 3 ; " E x P a r t e " c v " 3 = " P E V C " E q o o g p v u " c v " 7 / 8 = " Q r g p " V g e j p q n q i { " K p u k v w w g " c p f " R w d n k e " M p q y n g f i g " E q o o g p v u " c v " 3 2 0 "

dgpghkvu"kpewfvg"kvu"ko rqtvcpeg"vq"gfwevcvqp."ogfkekp."uocvtv"ci tkewvvtg."cpf"kpfwuvv{0⁵⁶⁵"Eq o o gpvgtu"cuugtv"vjcv"dgpgkhvu"htq o "tgrwtrqukpi"vjg"70;" I J |"dcpf"y qwnf"ctkug"htq o "vjg"kpctgcugf"Yk/Hk"ecrcckv{"cwvq"pfp"ykvj"vjg"etgcvkqp"qh"cf fkvkqpcn"ejcppgnn ô kpenwfkpi"cp": 2/ogicjgtv|"ejcppgn"cpf"382/ogicjgtv|"ejcppgn⁵⁶⁶

34:0A Costrs0"Xctkquw"eq o o gpvgtu"enck o "vjcv"vjg"equuv"qh"tgfwekpi"vjg"urgetw o "fgfkecvf"hq"KVU"uwduvcpvkcn{"qww y gki j"vjg"dgpgkhvu"qh"fgfkecvkpi"67"ogicjgtv|"hq"wpnkpegpugf"qr gtcvkkpu0"Jqy gxtg."tcvjgt"vjcp"swcpkhh{"kpi"equuv"urgekhhk"vq"vjg"tgfwekp"kp"KVU."o quv"eq o o gpvgtu"rqpkv"vq"vjg"geqpp o ke"ko rcev"ecwvfg"df"cwvq o qdkng"eqnkkukqpu"kp"ci itgi"cvg"vjg"tqwi j qww"vjg"Wpkvgf"Uvcvgu"gecj" {gct0"Eq o o gpvgtu"igpgtcn{"tghgt"vq"W0U0" FQV guvk o cvgu"qh"vjg"geqpp o ke"ko rcev"qh"nkxgu"nquv"cpf"kp lwtkgu"tguwvkvpi"htq o "rqneg/tgrqvtgf"Xgj keng"etcuju"kp"vjg"Wpkvgf"Uvcvgu⁵⁶⁷ cu"y gmn"cu"qv jgt"uwvfkgu"cpf"uwcvkukvku"vjcv"ygtg"pqv"KVU/urgekhhk⁵⁶⁸"Uq o g"eq o o gpvgtu."j qy gxtg."tghgt"vq"KVU/urgekhhk"cp cn"ug u."kpenwfkpi"vq" Pcvkqpcn" Jki j y c {"Vtchhke"Uchgv {"Cf o kpkuvtcvkqp" *P J VUC+" guvk o cvgu"qh"geqpp o ke"equv"ucxkpi u"cuuqekcvf"ykvj"X4X⁵⁶⁹"cpf"qv jgt"uwvfkgu⁵⁶⁶

34:0A Eq o o gpvgtu"cuuq"ctiwg"vjcv"tgrwtrqukpi"KVU"urgetw o "y qwnf"ngcf"vq"equuv"cuuqekcvf"ykvj"vtchhke"eqpi guvkqp."hwgn"eqpuw o rvkqp."cpf"cwvq"g o kuukqpu."dwv"kp"o quv"kpucvpegu."fq"pq"eqppgev"vjgug"equuv"vq"KVU⁵⁶⁶"Egtvckp"eq o o gpvgtu"tghgt"vq"cpwcn"vtchhke"tgfwekp"cpf"tgfwegf"ectdqp"fkqzkfg"

565" PEVC"Eq o o gpvu"cv"7="Qrgp"Vgejppnqi {"kpuvkvwvg"cpf"Rwdnke"Mpquyngfig"Eq o o gpvu"cv"33/37="PEVC" Tgrn {"cv"3/40"

566" F {pc o ke"Urgewt w o "Cmncpeg"Eq o o gpvu"cv"4/5="PEVC"Eq o o gpvu"cv"38/39="Qrgp"Vgejppnqi {"kpuvkvwvg"cpf"Rwdnke"Mpquyngfig"Eq o o gpvu"cv"9."37."53="YKURC"Eq o o gpvu"cv"5/6="Eq o o ecuv" Tgrn {"cv"32/340"

567"Eq o o gpvgtu"ekvki"p c" Pqxg o dgt"42."423;" Ex Parte"kpewfvg"C o gtkcep"Cuuqekcvkqp"qh"Uvcvg"Jki j y c {"cpf"Vtcurqtvcvkkp"Qhhekcnu"Eq o o gpvu"cv"4/5."8."42/43="EQVC"Eq o o gpvu"cv"9="EXUC"Eq o o gpvu"cv"3="FUTE" Cwvq"Uchgv {"Cmncpeg"Eq o o gpvu"cv"7=" I YVEC"Eq o o gpvu"cv"4=" J CVEK"cv"4=" J qpf c"Eq o o gpvu"cv"32="KGGG"382;" Yqtmkpi" I tqwr"Eq o o gpvu"cv"6="KVU"OK"Eq o o gpvu"cv"4="OGOC"Eq o o gpvu"cv"5="UCHG"Eq o o gpvu"cv"5="WU"VC I"Eq o o gpvu"cv"7="CC" Tgrn {"cv"36="Ft0" Tkejctf" Tq {" Tgrn {"cv"50" See"Ngwgt"htq o "Gnckpg"N0"Ej cq."Ugetgvct {"W0U0" FQV."vq"Clkv"Rck."Ejctk o cp."HEE"cv"3" *hknfg" Pqx0"42."423; +."jwruclly y y0jki j y c {u0qti ly r/eqpvglwrncqful423:134luge/ejcg/ngwgt/70:/33/42/3:0r fh"Eq o o gpvgtu"ekvki" W0U0" FQV" Tgrn {"kpenwfg"CV (V" Tgrn {"cv"35/36="Eqpvkpgpvcn" Tgrn {"cv"48="KVU" C o gtkcep" Tgrn {"cv"32="Vgzcu" FQV" Tgrn {"cv"3/40" See" W0U0" FQV" Tgrn {"cv"cej kpi"Ngwgt"htq o "Uvgxgp" I 0" Dtcfdwt {" I gpgtcn"Eqwpu gn."W0U0" FQV."vq"Clkv"Rck."Ejctk o cp."HEE."Uwr ring o gpvct {"Vgejpkcn"Eq o o gpvu"cv":0"

568" Ect"4" Ect"Eq o o gpvu"cv"9="EQVC"Eq o o gpvu"cv"9="FUTE" Cwvq"Uchgv {"Eqcnkvkqp"Eq o o gpvu"cv"6."p08=" J CVEK"Eq o o gpvu"cv"3:="Okppguqc" FQV"cv"4."p0kk="PCHC"Eq o o gpvu"cv"4="UCPFC I"Eq o o gpvu"cv"6/7="Xqnmuycigp"Eq o o gpvu."Cwcej0"cv"7="Cfxqecvgu"htq" Jki j y c {" ("Cwvq"Uchgv {"cv"30"

569" CC"Eq o o gpvu"cv"9="FUTE" Cwvq"Uchgv {"Cmncpeg"Eq o o gpvu"cv"32="Ect"4" Ect"Eq o o gpvu"cv"9=" J CVEK"Eq o o gpvu"cv"4="KVU" C o gtkcep"Eq o o gpvu"cv"47=" P ZR"Ug o kep fwevtu"Eq o o gpvu."Cwcej0"cv"3="Rcpucqpkc"Eq o o gpvu"cv"8="CC" Tgrn {"cv":="KVU" C o gtkcep" Tgrn {"cv"32="VzFQV" Tgrn {"cv"40" Vjg" PV JUC"cp cn {"uku"ku" rctv"qh" P J VUC0u"4239" X4X" PRT0" See" W0U0" FQV." P J VUC."Hgf gtcn" Oqqt" Xgj keng"Uchgv {"Uvcp fct fu="X4X"Eq o o wpkcevkqpu." : 4" Hgf0" Tgi0"5: 76" Lcpwct {"34."4239+."jwruclly y y0iqxlphq0iqxlqepvprmiLHT/4239/23/34lr fh14238/5327:0r fh" *P J VUC" X4X" PRT0" +0"

56: "CC"Eq o o gpvu"cv"9="w/dnqz"eq o o gpvu"cv"5/6"ekvki" Lc o gu" T0"Uc {gt. Ectqn" C0" E0" Hncppci cp." Cpftgy" L0" Ngunkg." The Cost in Fatalities, Injuries and Crashes Associated with Waiting to Deploy Vehicle-to-Vehicle Communication." Wpkyxtkv {"qh" Okejki cp" Vtcurqtvcvkkp" Tgugctej "kpuvkvwvg" Tgrqvt" *Oct0"3."423: +."jwruclly y y0wvkvkw o ke j0gfwly jcv/ygtg/fqkpi lpg yulequw/hcvnkvgu/kplwtkgu/cpf/etcuju/cuuqekcvf/yckvki/fgrnq{/xgjkeng/xgjkeng" *Wpkyxtkv {"qh" Okejki cp" X4X" Tgrqvt += "KGGG"382;" Yqtmkpi" I tqwr"Eq o o gpvu"cv": ;="WU"VC I"Eq o o gpvu"cv": *ekvki" L0" E j cpi" gv" cn0." Guvk o cvg f" Dgpghkvu"qh" Eqppgev f" Xgj keng" Cr rnkecvkqpu" F {pc o ke" Oqdknv {"Cr rnkecvkqpu." CGTKU." X4X" Uchgv {"cpf" Tqcf" Y gcv jgt" Ocp c i g o gpv" Cr rnkecvkqpu." W0U0" FQV." KVU" Lqkp v" Rti it c o " Qhhek" Tgrqvt" Pq0" H J Y C/LRQ/37/477."cv" xkk" *Cwi0"4237+."jwruclly y y0iqxlphq0iqxlqepvprmiLHT/4239/23/34lr fh14238/5327:0r fh" *W0U0" FQV"4237"Eqppgev f" Xgj keng" Tgrqvt +0"

56: "CC"Eq o o gpvu"cv"35="C o gtkcep"Cuqekcvkqp"qh"Uvcvg"Jki j y c {"cpf"Vtcurqtvcvkkp"Qhhekcnu"Eq o o gpvu"cv"5=" J qpf c"Eq o o gpvu"cv"32="KVU" C o gtkcep"Eq o o gpvu"cv"36="Rcpucqpkc"Eq o o gpvu"cv"9="UCHG"Eq o o gpvu"cv"5="

*eqpvkpwgf í 0+

g o kuukqpu"cuuqekcvgf" ykvj "X4Z.⁵⁷²ⁿ y j kng"qvj gtu"encko "v j cv"v j g"tgrwtrqukpi"eqwnf"kpj kdkv"vge j p q n q i { " c f x c p e g o g p v u . " k p e n w f k p i " k p " v t w e m " r n c v q q p k p i . " t q c f " y g c v j g t " k p h q t o c v k q p " v g e j p q n q i k g u . " c p f " n q i k u v k e u l " ^{573m}

3520A Oqtg"i gpgtcm{ ."eq o o gpvgtu"gzrtguu"eqpegtp"v j cv"tgrwtrqukpi"urgetvw o "kp"v j g"70;" I J | " d c p f " y q w n f " f g n c { " v j g " u r t g c f " q h " K V U " c r r n k e c v k q p u " k p " v j g " W p k v g f " U v c v g u l " ^{574m} T g n c v g f n { . " C m k c p e g " h q t " C w v q o q v k x g " k p p q x c v k q p " * C C K + " c u u g t v u " v j c v " o } y _ k v j k p " 7 " { g c t u . " c " v q v c n " q h " c v " n g c u v " 7 " o k m k q p " t c f k q u " q p " x g j k e n g u " c p f " t q c f y c { " k p h t c u v t w e w t g " y k m " j c x g " d g g p " f g r n q { g f . " k p e n w f k p i " c p { " r t g x k q w u " X 4 Z " f g r n q { o g p v u . o " d w v " q p n { " k h " v j g " g p v k t g " 7 0 ; " I J | " d c p f " k u " r t g u g t x g f " h q t " K V U " ⁵⁷⁵ⁿ

3530A Hkpcn{ ."KVU"cfxqecvgtu"cti w g " v j c v " g z k v k p i " K V U " n k e g p u g g u " y q w n f " h c e g " c " v t c p u k v k q p " e q u w " c d q x g " & 7 2 2 " o k m k q p . ⁵⁷⁶ⁿ y k v j " u r g e k h k e " t g h g t p e g " v q " W 0 U 0 " F Q V " g u v k o c v g u " q h " k p h t c u v t w e w t g " c p f " g s w k r o g p v " t g r n c e g o g p v . " g p i k p g g t k p i . " c p f " t g n c v g f " e q u v u l " ^{577m} E q o o g p v g t u " c n u q " e n c k o " v j c v " u w d u v c p k c n " k p x g u v o g p v u " k p " t g u g c t e j . " f g x g n r o g p v . " c p f " v g u v k p i " y q w n f " d g " n q u w " c u " c " t g u w n v " q h " v j g " E q o o k u u k q p o u " r t q r q u g f " t w n g l " ⁵⁷⁸ⁿ

3540A Kp"tgurqpug."xctkquw"eq o o gpvgtu"cti w g " v j c v " v j g " E q o o k u u k q p o u " r t q r q u c n " n g c x g u " u w h h k e g p v " u r g e v t w o " v q " o g g v " c w v q o q v k x g " p g g f u " ⁵⁷⁹ⁿ c p f " v j c v " t g h g t p e g u " v q " g e q p q o k e " x c n w c v k q p u " d c u g f " q p " v j g " u w o " q h " W 0 U 0 " r a n k e g " t g r q t v g f " x g j k e n g " e t c u j g u " g t t q p g q w u n { " u w i i g u v " v j c v " 3 2 2 " " q h " e t c u j g u " c p f " e q p i g u v k q p " y k m " d g " c x q k f g f " k h " c m n " 9 7 " o g i c j g t v | " k p " v j g " 7 0 ; " I J | " d c p f " k u " f g f k e c v g f " v q " K V U " ^{57:} " E q o o g p v g t u " c n u q " p q v g " e n c k o u " c d q w v " c f x c p e g f " K V U " d c u g f " c r r n k e c v k q p u " v j c v " e q w n f " r g t o k v " e q p i g u v k q p / t g n c v g f " c p f " g p x k t q p o g p v c n " d g p g h k u " c t g " u r g e w n c v k x g " c p f " v j c v " c w v q o q v k x g " v g e j p q n q i k g u " e q w n f " w u g " q v j g t " n k e g p u g f " q t " w p n k e g p u g f " u r g e v t w o " h q t " o c p { " q h " v j g " p q p / u c h g v / q h / n k h " u g t x k e g u " v j c v " c w v q o c m g t u " e q p v g p f " y q w n f " t g n { " q p " K V U " ^{57:} " R t q r q p g p v u " q h " v j g " E q o o k u u k q p o u " r t q r q u c n " c i t g g " v j c v " v j g t g " y q w n f " d g " e q u v u " c u u q e k c v g f " y k v j " o q x k p i " K V U " n k e g p u g g u " h t q o " v j g " n q y g t " 6 7 " o g i c j g t v | . " d w v " v j c v " v j g u g " y g t g " q x g t u v e v g f " d { " v j g " W 0 U 0 " F Q V " ⁵⁸²ⁿ c p f " u j q w n f " p q v " k p e n w f g " u w p m " e q u v u " v j c v " e c p p q v " d g " t g e q w r g f " t g i c t f n g u u " q h " E q o o k u u k q p " c e v k q p l " ⁵⁸³ⁿ

2. Benefits of Unlicensed Spectrum in the Lower 45 Megahertz of the 5.9 GHz

Y c u j k p i v q p " U v c v g " F Q V " E q o o g p v u " c v " 5 " = " W 0 U 0 " F Q V " T g r n { " c v " 4 " = " C C K " T g r n { " c v " 9 " = " K V U " C o g t k e c " T g r n { " c v " 3 5 / 3 6 " = " V g z c u " F Q V " T g r n { " c v " 4 0 " }

⁵⁷²ⁿ "KVU" C o g t k e c " E q o o g p v u " c v " 4 8 / 4 9 " = " U C H G " E q o o g p v u " c v " 5 " = " W U " V C I " E q o o g p v u " c v " 6 . " : = " F t 0 " T k e j c t f " T q { " T g r n { " c v " 5 " = " K V U " C o g t k e c " T g r n { " c v " 3 3 / 3 4 0 " }

⁵⁷³ⁿ See e.g., "Okppguqvc" FQV"Eq o o gpvu"cv"4-"PZR"Ug o keqpfwevqtu"Eq o o gpvu."Cwcej0"cv"4."500"Vtwem"rncvqqkpi" tghgtu"vq"v j g" wug"qh"KVU"vq"nkpm"o wvkrng"vtwemu"kp" c"eqpxq"0"

⁵⁷⁴ⁿ See, e.g., "C o g t k e c p " C u u q e k c v k q p " q h " U v c v g " J k i j y c { " c p f " V t c p u r q t v c v k q p " Q h h k e c n u " E q o o g p v u " c v " 5 " = " E c t " 4 " E c t " E q o o g p v u " c v " 3 " = " E q p k p g p v c n " E q o o g p v u " c v " ; = " O k p p g u q v c " F Q V " E q o o g p v u " c v " 4 " = " W 0 U 0 " F Q V " T g r n { " c v " 5 7 . " 5 : / 5 ; 0 " }

⁵⁷⁵ⁿ Ngwgt"htq o "Lqj p"Dq | | g m n c . " R t g u k f g p v " c p f " E G Q . " C C K . " v q " G n c k p g " E j c q . " U g e t g v c t { . " W 0 U 0 " F Q V " c p f " C l k v " R e k . " E j c k t o c p . " H E E . " G V " F q e m g v " P q 0 3 ; / 3 5 . " c v " 4 " * h k n g f " C r t 0 4 5 . " 4 2 4 2 + * C C K " C r t 0 4 5 . " 4 2 4 2 " E x P a r t e 0 "

⁵⁷⁶ⁿ C o g t k e c p " C u u q e k c v k q p " q h " U v c v g " J k i j y c { " c p f " V t c p u r q t v c v k q p " Q h h k e c n u " E q o o g p v u " c v " 9 " = " F U T E " C w v q " U c h g v { " E q c n k v k q p " E q o o g p v u " c v " 3 5 " = " O k p p g u q v c " F Q V " E q o o g p v u " c v " 4 " = " P Z R " U g o k e q p f w e v q t u " E q o o g p v u . " C w c e j 0 " c v " 4 " = " C C K " T g r n { " c v " 3 5 0 " }

⁵⁷⁷ⁿ W0U0" FQV" Tgrn{ "cv"59/5: 0" Egtvckp"ucvgt" FQV"u"cnug"gpw o gtcvgt"equu"urgekhe"vq" FUTE" r t q l g e w u " k p " v j g k t " u v c v g 0 " See, e.g., "Okppguqvc" FQV"Eq o o gpvu"cv"7-" I g q t i k e " F Q V " E q o o g p v u " c v " 4 0 " }

⁵⁷⁸ⁿ K f c j q " F Q V " E q o o g p v u " c v " 4 " = " O q p v c p c " F Q V " E q o o g p v u " c v " 4 " = " P g y " [q t m " E k v { " E q o o g p v u " c v " 3 / 4 " = " P q t v j " F c m q v c " F Q V " E q o o g p v u " c v " 4 " = " Y c u j k p i v q p " U v c v g " F Q V " E q o o g p v u " c v " 4 " = " Y { o k p i " F q V " E q o o g p v u " c v " 5 " = " W 0 U 0 " F Q V " T g r n { " c v " 5 7 / 5 8 0 " }

⁵⁷⁹ⁿ E C I Y " T g r n { " c v " 4 / 5 " = " E q o e c u v " T g r n { " c v " 3 9 " = " K E N G " T g r n { " c v " 7 " = " P E V C " T g r n { " c v " 8 7 " = " D t c v n g " 7 0 ; " I J | " C p c n { u k u " c v " 7 / 9 0 " }

^{57:} "Dtcvng"70;" I J | "Cpcn{uku"cv"; /320"

^{57:} "Eq o e c u v " T g r n { " c v " 3 9 " = " P E V C " T g r n { " c v " 4 5 / 4 8 . " 8 7 0 " }

⁵⁸²ⁿ "Dtcvng"70;" I J | "Cpcn{uku"cv"360"

⁵⁸³ⁿ "PEVC" Tgrn{ "cv"89/8: ="Dtcvng"70;" I J | "Cpcn{uku"cv"340"

Band

3550A Y g'gxcnwcvg'v'jg'geppq o ke' dgpghkvu'qh' fgfkecvkp i' v'jg'nq ygt'67" o g i c j g t v | " q h ' v j g ' 7 0 ; " I J | " d c p f " h q t " w p n k e g p u g f " w u g " d { " g u v k o c v k p i " v j g " g z r g e v g f " e q p v t k d w v k p p " v q " I t q u u " F q o g u v k e " R t q f w e v * " I F R + " t g u w n v k p i " h t q o " c f f k v k q p c n " Y k / H k " v t c h h k e " p p e g " v j k u " u r g e v t w o " k u " o c f g " c x c k n c d n g " v q " c w i o g p v " g z k u v k p i " Y k / H k " e c r c e k v { 0 " C f f k v k q p c n " Y k / H k " e c r c e k v { " k u " x c n w c d n g " c u " h w w t g " W 0 U 0 " Y k / H k " f g o c p f " k u " g z r g e v g f " v q " i t g c v n { " k p e t g c u g 0 5 8 4 " v j g " c f f k v k q p c n . " y k f g t " e j c p p g n u " o c f g " r q u u k d n g " d { " t g r w t r q u k p i " u r g e v t w o " k p " v j g " 7 0 ; " I J | " d c p f " y k m n " c m n q y " o q t g " f g x k e g u " v q " e q p p g e v " c v " c " i k x g p " v k o g 0 " " V j g " c f f k v k q p c n " v t c h h k e " y k m n " r t q f w e g " p g y " r t q f w e v x g " g e a p p q o k e " c e v k x v { . " k p e n w f k p i " v j t q w i j " c f f k v k q p c n " q p n k p g " v t c p u c e v k p u " d g v y g g p " k p v g t p g v " w u g t u " c p f " k p v g t p g v " U g t x k e g " R t q x k f g t u " * K U R u + . " y j k e j " v q i g v j g t . " e q o r t k u g " v j g " c f f g f " x c n w g " q h " c f f k v k q p c n " u r g e v t w o 0 " " Y g " h q e w u " j g t g " q p " v j g " c f f k v k q p c n " I F R " e t g c v g f " d { " v t c p u c e v k p u " d g v y g g p " K U R u " c p f " v j g k t " e w u v o g t u " u k p e g " g u v k o c v k p i " c f f k v k q p c n " q p n k p g " v t c p u c e v k p u " d g v y g g p " k p v g t p g v " w u g t u " k u " f k h h k e w n v " f w g " v q " n c e m " q h " f c v c 0 " " V j w u . " q w t " g u v k o c v g " k u " e q p u g t x c v k x g . " e c r v w t k p i " v j g " g e a p p q o k e " x c n w g " v q " v j g " K U R u " f k t g e v n { " * k 0 g 0 . " r t q f w e g t " u w t r n w u + . " y j k n g " k i p q t k p i " e q p u w o g t " u w t r n w u " i c k p u 0 "

3560A Y k/Hk'vtchhke'qeewtu'qp'fkuetvg'e'jcppgnu'qh'42" o g i c j g t v | . " 6 2 " o g i c j g t v | . : 2 " o g i c j g t v | " c p f " r q v g p k c m n { " 3 8 2 / o g i c j g t v | " d c p f y k f v j 0 " " N c t i g t " d c p f y k f v j u " k o r t q x g " v j g " u r g g f " q h " v t c h h k e " q p " v j g " d c p f u " c p f " c f f k v k q p c n " e j c p p g n u " k p e t g c u g " v j g " c i i t g i c v g " e c r c e k v { " q h " Y k / H k 0 " " Q w t " d c u g n k p g " e c n e w n c v k p q h " v j g " " k p e t g c u g " k p " v t c h h k e " k u " d c u g f " q p " v j g " k f g c " v j c v " v j g " c f f k v k q p c n " 6 7 " o g i c j g t v | " q h " 7 0 ; " I J | " u r g e v t w o " y k m n . " y j g p " e q o d k p g f " y k v j " u r g e v t w o " h t q o " v j g " 7 0 9 4 7 / 7 0 : 7 2 " I J | " * W / P K K / 5 + " d c p f . " g p c d n g " Y k / H k " w u g t u " v q " c e e g u u " c p " c f f k v k q p c n " 3 8 2 / o g i c j g t v | " e j c p p g n " c p f " : 2 / o g i c j g t v | " e j c p p g n . 5 8 5 " v y q " c f f k v k q p c n " 6 2 / o g i c j g t v | " e j c p p g n u . " c p f " v j t g g " c f f k v k q p c n " 4 2 / o g i c j g t v | " e j c p p g n u " k p " c f f k v k q p " v q " e j c p p g n u " v j c v " c t g " c n t g c f { " c x c k n c d n g . " k p e n w f k p i " v j q u g " k p " v j g " 8 " I J | " d c p f 0 5 8 6 " " V j k u " y k m n " i k x g " e q p u w o g t " f g x k e g u " c f f k v k q p c n " e j c p p g n u " v q " g u v d n k u j " e q p p g e v k p u " v q " o k v i c v g " e q p i g u v k p 0 " " D g e c w u g " h w w t g " Y k / H k " v t c h h k e " k u " g z r g e v g f " v q " i t g c v n { " k p e t g c u g " c p f " u v t c k p " e c r c e k v { " v q f c { " c p f " k p " v j g " h w w t g . " y g " c u u w o g " v j c v " v j g " c f f k v k q p c n " 7 0 ; " I J | " u r g e v t w o " y k m n " d g " h w n n { " w u g f " d { " e q p u w o g t u 0 5 8 7 " " V j k u " k o r n k g u " v j c v " y g " e c p " g u v k o c v g " c f f k v k q p c n " v t c h h k e " h q t " e j c p p g n u " q h " c " u r g e k h k e " d c p f y k f v j " c u " c " r t q r q t v k p " q h " p g y " Y k / H k " e j c p p g n u " v j c v " v j k u " u r g e v t w o " y q w n f " e t g c v g " t g n c v k x g " v q " g z k u v k p i " e j c p p g n u " q h " v j c v " d c p f y k f v j 0 5 8 8 " " W u k p i " v j k u " c p f " t g c u q p c d n g " c u u w o r v k q u " q p " v j g " f k u v t k d w v k p " q h " v t c h h k e " c e t q u u " Y k / H k " e j c p p g n u " q h " f k h h g t g p v " d c p f y k f v j u . " y g " e c n e w n c v g " v j c v " Y k / H k " v t c h h k e " y q w n f " k p e t g c u g " d { " : 0 6 ' 0 5 8 9 " " Y g " p q v g " v j c v " c n v j q w i j " v j g t g " c t g " o g c p u " v q " c w i o g p v " e c r c e k v { " q v j g t " v j c v " v j t q w i j " c f f k v k q p c n " u r g e v t w o . " u w e j " c u " y k v j " i t g c v g t "

584" Vjg'Htgg'Uvcvg'Hqwpfcvkqp'Eq o o g p v u ' c v ' 9 / : = " Q r g p " V g e j p q u i { " k p u v k w v g " c p f " R w d n k e " M p q y n g f i g " E q o o g p v u " c v " 3 8 / 3 9 0 "

585" Cn v j q w i j " o w e j " q h " v j g " u r g e v t w o " v j c v " o c m g u " w r " v j g u g " c f f k v k q p c n " e j c p p g n u " k u " h q e c v g f " k p " v j g " W / P K K / 5 " d c p f . " y g " c v t k d w v g " v j g " g p v k t g " d g p g h k v " v q " v j g " u r g e v t w o " d g k p i " o c f g " c x c k n c d n g " d g e c w u g " v j g u g " e j c p p g n u " y q w n f " p q v " g z k u " d w " h q t " v j g " c f f k v k q p c n " 6 7 " o g i c j g t v | " q h " u r g e v t w o " o c f g " c x c k n c d n g " k p " v j g " W / P K K / 6 " d c p f " v j t q w i j " v j k u " H k t u v " T g r q t v " c p f " Q t f g t 0 "

586" Hq t " c " v c d n g " q h " c x c k n c d n g " e j c p p g n u . " k p e n w f k p i " v j q u g " k p " v j g " 8 " I J | " d c p f . " s e e " 6 G H z R e p o r t a n d O r d e r . " 5 7 " H E E " T e f " c v " 5 ; 2 4 . " V c d n g " 8 0 " " Y g " p q v g " v j c v " d g e c w u g " y g " k p e n w f g " e j c p p g n u " k p " v j g " 8 " I J | " d c p f . " q w t " e c n e w n c v k p u " c t g " n k m g n { " e q p u g t x c v k x g " d g e c w u g " q h " v j g " r q y g t " n k o k v c v k p u " k p " v j c v " d c p f " e q o r c t g f " v q " v j q u g " k p " v j g " W / P K K / 6 " d c p f . " y j k e j " y q w n f " n k m g n { " n g c f " v q " i t g c v g t " t g n c p e g " q p " v j g " h c v g t 0 " " H q t " g z c o r n g u . " k p f q q t " f g x k e g u " w u k p i " 3 8 2 / o g i c j g t v | " e j c p p g n u " k p " v j g " W / P K K / 6 " d c p f " y k m n " d g " c d n g " v q " t g n { " q p " 5 8 " f D o " q h " r q y g t " e q o r c t g f " v q " 4 9 " f D o " k p " v j g " 8 " I J | " d c p f 0 " " S e e " 6 G H z R e p o r t a n d O r d e r . " 5 7 " H E E " T e f " c v " 5 : : ; / 2 . " r c t c 0 " 3 2 5 0 "

587" Vjg'Htgg'Uvcvg'Hqwpfcvkqp'Eq o o g p v u ' c v ' 9 / : * p q v k p i " v j c v " g z k u v k p i " w p n k e g p u g f " d e p f u " d e q w n f " d g " t g p f g t g f " w p w u c d n g " d { " k p e t g c u k p i " f g o c p f . o " c p f " v j c v " o d { " q p g " g u v k o c v g " y g o t g " i k p i " v q " p g g f " v q " h k p f " 3 8 2 2 "] o g i c j g t v | _ " q h " c f f k v k q p c n " w p n k e g p u g f " u r g e v t w o " v q " o g g v " d w u { / j q w t " f g o c p f " d { " 4 2 4 7 o = " P E V C " E q o o g p v u " c v " 7 9 " * c u u g t v k p i " v j c v " c n v j q w i j " 7 I " y k m n " r t q x k f g " o q t g " d c p f y k f v j . " o k v " y k m n " c u u q " u w r r q t v " u q " o w e j " o q t g " f c v c " w u c i g " v j c v " g x g p " o q t g "] Y k / H k " q h n q c f " k u " t g s w k t g l g f _ 0 o + 0 " " O a t g q x g t . " c u " y g " u j y q " k p " C r r g p f k z " E . " q w t " h k p f k p i " v j c v " d g p g h k v u " q w v y g k i j " e q u u " f a g u " p q v " t g s w k t g " h w n n " w u g " q h " v j g " W / P K K / 6 " d c p f 0 " " I n f r a " C r r g p f k z " E . " r c t c 0 " 3 3 0 "

588" Hq t " g z c o r n g . " v j g t g " c t g " c n t g c f { " v y q " : 2 / o g i c j g t v | " e j c p p g n u " w u g f " e q o o q p n { " d { " Y k / H k 0 " " V j g " c f f k v k q p c n " u r g e v t w o " y q w n f " c m n q y " w u g " q h " a p p " c f f k v k q p c n " : 2 / o g i c j g t v | " e j c p p g n 0 " " C u u w o k p i " v j c v " v j k u " p g y " e j c p p g n " y q w n f " d g " h w n n { " w u g f . " v t c h h k e " y q w n f " k p e t g c u g " d { " 7 2 ' " d c u g f " q p " v j g " r t q r q t v k p . " a p p " p g y " e j c p p g n " v q " v y q " q n f " e j c p p g n u 0 "

589" Qwt'vtchhke'fkuvtkdwvkqp'cuuw or vkqpu'ctg'urgekhhg'f'kp'Gngevtqpk'e'Eq o o wpkcevkqpu'Eq o o kvvgg. GEE'Tgrqtv'524.'cv'44*Oc{'4;.'423;+.jwruklfgefdlgrvqlt'lfqy'pncqf'lee25e988/57h:lGEE '42Tgrqtv '425240rfh0'

kpxguv o gpv"kp"kphtcuvtwevwtg.⁵⁸"qwt"tguwnv"o ckpvcvku"cu"nqpi"cu"ecrcekv{"tg o ckpu" c"dqvnngpgem"vq"ugtxkeg"
swcnkv{0"

3570^A Cu"y g"ujqy"kp"i tgcvtg"fgvckn"kp"Cr r g p f k z" E."vq"ecnewncvg"cf fkvkqpcn" I FR."y g" o wnvk rn{"
:06 ' "d{"cp"gzvtrcqvckqp"qh"W0U0" Y k/Hk"vtchhke"vq"fgvgt o kpg"cf fkvkqpcn"vtchhke"rgt{"gct"kp"i k i c d {"vgu"
* I Du+0⁵⁸:" Y g"v j g p" o wnvk rn{"v j k u" h k i w t g" d {"c p" g u v k o c v g" q h" v j g" c x g t c i g" KUR" t g x g p w g" i g p g t c v g f" d {"c p"
c f f k v k q p c n" I D" q h" v t c h h k e" ⁵⁹² Y g" g u v k o c v g" d g p g h k v u" q p n {"v j t q w i j" 4247" v q" c x q k f" t g n {"k p i" q p" e w t t g p v" f c v c" h q t"
r t q l g e v k p i" v q q" h c t" k p v q" v j g" h w v w t g." d w v" p q v g" v j c v" d g e c w u g" q w t" g u v k o c v g u" k p e q t r q t c v g" g z k u v k p i" u w t t g p v" f c v c" q h"
w p n k e g p u g f" u r g e v t w o." k p e n w f k p i" k p" v j g" 8" I J | " d c p f." y g" d g n k g x g" v j c v" v j g" d g p g h k v u" q h" t g r w t r q u k p i" v j g" 70;"
I J | " d c p f" y q w n f" e q p v k p w g" d g {" q p f" 42470" O q t g q x g t." c n v j q w i j" y g" c p v k e k r c v g" v j c v" d g p g h k v u" e q w n f" c t k u g"
g c t n k g t." y g" f q" p q v" e c n e w n c v g" d g p g h k v u" r t k q t" v q" 4245" v q" c m q y" v k o g" h q t" f g x k e g u" v q" d g" w r f c v g f" c p f" c f q r v g f" d {"
e q p u w o g t u 0" W u k p i" c" f k u e q w p v" t c v g" q h" 9' ". q w t" e q p u g t x c v k x g" c r r t q c j e" n g c f u" v q" c" r t g u g p v" x c n w g" q h"
c r r t q z k o c v g n {" & 8" d k n k q p" k p" d g p g h k v u" k p" g c e j" q h" v j g {" g c t u" 4245/4247." q t" & 3904" d k n k q p" q x g t" v j c v" v k o g"
h t c o g 0⁵⁹³"

3580^A Alternative Estimates of Unlicensed Spectrum Value in the Record." "kp"v j g" 5.9 GHz
NPRM." y g" p q v g f" v j c v" v j g" T C P F" 70;" I J | " U v w f {" c v g o r v g f" v q" x c n w g" c f f k v k q p c n" v t c h h k e" g z r g e v g f" v q" t g u w n v"
h t q o" t g r w t r q u k p i" v j g" g p v k t g" 70;" I J | " d c p f" h q t" w p n k e g p u g f" w u g 0⁵⁹⁴ C n v j q w i j" e q o o g p v g t u" i g p g t c m {" f k f" p q"
f k u r w w g" T C P F 0 u" c u u g u o g p v." r g t" v j g" 5.9 GHz" N P R M." y g" j c f" t g u g t x c v k q p u" y k v j" v j g u g" x c n w c v k q p u 0⁵⁹⁵ V j g"
T C P F" g x c n w c v k q p" q h" c f f k v k q p c n" v t c h h k e" y c u" v j g" u w o" q h" g z v t c" x c n w g" h t q o" v j g" c f f k v k q p c n" p w o d g t" q h"
i k i c d {" v g u" * I D u+ v t c p u o k v g f" v k o g u" c p" c x g t c i g" d t q c f d c p f" r t k e g" r g t" I D." r n w u" v j g" e q u v" v q" e q p u w o g t u" q h" p g y"
Y k/Hk/wukpi" fgxkegu" v j c v" T C P F" h q w p f" y q w n f" j c x g" v q" d g" r w t e j c u g f" v q" u w r r q t v" v j k u" p g y" v t c h h k e 0⁵⁹⁶ Y j k n g"
y g" c i t g g" v j c v" v j g" c x c k n e d k n k v {" q h" c f f k v k q p c n" w p n k e g p u g f" u r g e v t w o" k p" v j g" 70;" I J | " d c p f" y k n n" e t g c v g" c f f k v k q p c n"
v t c h h k e." y g" h k p f" v j c v" T C P F 0 u" f g x k e g" d c u g f" e q o r q p g p v" n k m g n {" q x g t u v c v g u" d g p g h k v u" d g e c w u g" k v" c u u w o g u" v j c v"
Y k/Hk" fgxkegu" k p" w u g" c t g" u w d u v c p v k c m n {" n k o k v g f" d {" e c r c e k v {" e q p u v t c k p v u." c p f" v j w u." c p {" k p e t g c g k p" Y k/Hk"

⁵⁸:" C f f k v k q p c n" k p h t c u v t w e v w t g" k p x g u v o g p v" k p e n w f g u" c n v g t p c v k x g u" u w e j" c u" o w n v k r n g" k p r w v l o w n v k r n g" q w v r w v" * O K O Q" 0" Y k v j"
o c u u k x g" O K O Q." c" h w w t g" k u" g p x k u k q p g f" y j g t g" j w p f t g f u" q t" v j q w u c p f u" q h" c p v g p p c u" c t g" w u g f" v q" u g t x g" c" u g v" q h" w u g t u 0"
V j g t g" c t g." j q y g x g t." r t c e v k e c n" n k o k v u" v q" j q y" o c p {" c p v g p p c u" e c p" d g" f g r n q {" g f" c v" e q p x g p w k q p c n" v q" y g t u" c p f" t q q h v q r"
n a e c v k q u." h q t" g z c o r n g." f g v g t o k p g f" d {" v j g" c t t c {" f k o g p u k q p u" c m n q y g f" d {" v j g" u k v g" q y p g t." v j g" y g k i j v." c p f" v j g" y k p f"
n a c f 0" C f f k v k q p c n {" o c u u k x g" O K O Q" h c e g u" f g r n q {" o g p v" e j c m n g p i g u." k p e n w f k p i" r k n q v" e q p v c o k p e v k q p." e j c p p g n" g u v k o c v k q p."
r t g e q f k p i." w u g t" u e j g f w n k p i." j c t f y c t g" k o r c k t o g p w u." g p g t i {" g h h k e k p e {" c p f" u k i p c n" f g v g e v k a p" v j c v" p g g f" v q" d g" c f f t g u g f"
d g h q t g" k v" e c p" c e j k g x g" k v u" r t q o k u g f" c f x c p v c i g u 0" See, e.g., "Dl34tquqp." G o k n." g v" c n l." Massive MIMO is a reality—What is
next?: Five promising research directions for antenna arrays." ; 6" F k i k v c n" U k i p c n" R t q e g u k p i" * 423 ; + " T q d k p" E j c v c w v"
c p f" T q d g t v" C m n." Massive MIMO Systems for 5G and beyond Networks—Overview, Recent Trends, Challenges, and
Future Research Direction." 42" U g p u q t u" * 4242+0"

⁵⁸:" E K U E Q." X P K" E q o r n g v g" H q t g e c u v" J k i j n k i j v u." W p k v g f" U v c v g u" / " 4244" H q t g e c u v" J k i j n k i j v u." c v" 3/4" * 423 : +0"

⁵⁹²:" U r g e k h k e c m n {" y g" w u g" r t q l g e v k p u" q h" v j g" r t k e g" r g t" I D" h q t" h k z g f" W 0 U 0" d t q c f d c p f" r n c p u" d c u g f" q p" v j g" E q p u w o g t" R t k e g"
k p f g z" * E R K+ " h q t" d k p v g t p g v" u g t x k e g u" c p f" g n g e w t q p k e" k p h q t o c v k q p" r t q x f g t u 0" c p f" c" d c u g n k p g" r t k e g" g u v k o c v g" h t q o" v j g"
E q o o k u u k q p u 0" 423 : " k p v g t p e v k q p c n" D t q c f d c p f" F c v c" T g r q t v 0" W 0 U 0" D w t g c w" q h" N e d q t" U v c v k u v k e u." F c v c d e g u." V c d n g u" (" E c n e w n c v q t u" d {" U w d l g e v." Internet Services and Electronic Information Providers."
[j w r u k l f c v c l d n u 0 i q x l v k o g u g t k e u l E W W T 2222 U G G G 25 A q w r w a x k g y ? f c v c](http://www.fcc.gov/record/files/etw-2019-01-22-2222UGGG25Aqwrwaxkgy?fcvc) * n c u v" x k u k v g f" Q e w 0" 49." 4242+ " International
Comparison Requirements Pursuant to the Broadband Data Improvement Act." I P" F q e m g v" P q 0" 39/3 ; ; " U k z v j"
T g r q t v." 54" H E E" T e f" ; 9 : " 3257." V c d n g" 50" Y g" c n u q" w u g f" c n v g t p e v k x g" c r r t q c e j g u" v j c v" n g f" v q" j k i j g t" I F R" g u v k o c v g u 0"
G x g t {" c r r t q c e j" c u u w o g u" v j c v" Y k/Hk" t g x g p w g" h t q o" v t c p u c e v k q p u" d g v y g g p" K U R u" c p f" v j g t" e w u v q o g t u" k u" r t q r t q v k p c n" v q"
k p e t g e u g u" k p" Y k/Hk" v t c h h k e 0" C f f k v k q p c m n {" g c e j" c r r t q c e j" k p e q t r q t c v g u" h z g f" d t q c f d c p f" r t k e g u" c p f" t g x g p w g u" d g e c w u g"
Y k/Hk" v t c h h k e" k u" v {" r k e c m n {" r c k f" h q t" k p f t g e v n {" x k c" c" h k z g f" d t q c f d c p f" u w d u e t r k v k p 0"

⁵⁹³:" k h" y g" k p u v g c f" f k u e q w p v" d {" 5' ". v j g" r t g u g p v" x c n w g" q h" d g p g h k v u" q x g t" 4245/4247" k u" & 3 ; 05" d k n k q p 0" C n v g t p e v k x g n {" f k u e q w p v k p i" d {" 9' ". d w v" t g n {" k p i" k p u v g c f" q p" v j g" E g p u w u" D w t g e c w o u" p e v k q p c n" t g x g p w g u" f c v c" h q t" h k z g f" k p v g t p g v" u g t x k e g u." y g"
g u v k o c v g f" c" r t g u g p v" x c n w g" q h" d g p g h k v u" q h" & 560 : " d k n k q p" q x g t" 4245/42470"

⁵⁹⁴:" 5.9 GHz NPRM." 56" H E E" T e f" c v" 34848/49." r t c d 0" 870"

⁵⁹⁵:" 5.9 GHz NPRM." 56" H E E" T e f" c v" 34848." r t c d 0" 87" (" p 032 : 0"

⁵⁹⁶:" T C P F" 70;" I J | " U v w f {" c v" 47/540"

ecrcekv{"y qwnf" i gpgtcvg"pg y"vtchhke"vj cv" y qwnf"dg"ceeq o o qfcvgf"gpvktgn{"d{"vjg"rwtejcug"qh"pg y" fgxkegu" Y g"cpwkekrvcg"vj cv"gzkuvkpi" Y k/Hk"fgxkegu" y knn"j c p f n g" o quv"qh"vj g" c f f k v k p c n" v t c h h k e. " h q e w u k p i" k p u v g c f" q p" v j g" x c n w g" q h" v j g" g z v t c" v t c h h k e" k v u g n h" d c u g f" q p" q w t" e c n e w n c v k q p" c d q x g 0" C f f k v k p c n n { . " w p n k m g" v j g" T C P F" 7 0 ; " I J | " U v w f { . " y g" k p e q t r q t c v g" 8" I J | " u r g e v t w o" k p v q" q w t" c p c n { u k u 0

3590A Y g"cnuq"rtgxkqun{"c f f t g u u g f" c p q v j g t" c r r t q c e j" v q" g x c n w c v k p i" w p n k e g p u g f" w u g <" g u v k o c v k p i" v j g" I F R" k p e t g c u g" f w g" v q" v j g" t g u w n v k p i" d t q c f d c p f" u r g g f" k p e t g c u g 0 5 9 7" C p" c n v g t p c v k x g" s w c p v k h k e c v k q p" k p" v j g" T C P F" 7 0 ; " I J | " U v w f { " c u" y g n n" c u" v j g" 4 2 4 2" Y k H k H q t y c t f" U v w f { " q h" v j g" x c n w g" q h" t g r w t r q u k p i" 7 0 ; " I J | " d q v j" t g n { " q p" u e j" g u v k o c v g u. " d w v" d c u g f" q p" f k h g t g p v" f c v 0" Y g" j c x g" p q v" h q w p f" c p" c r r t q r t k c v g" y c { " v q" c f f t g u u" q w t" e q p e g t p u" t g i c t f k p i" v j k u" g u v k o c v g" k p" g k v j g t" e q o o g p v u" v q" v j k u" r t q e g g f k p i. " v j g" r w d n k e" t g e q t f. " q t" k p" v j g" c e c f g o k e" n k v g t c v w t g. " c p f" u q" f g e n k p g" v q" k p e n w f g" c" d g p g h k v" q h" u r g g f" k p e t g c u g u" k p" q w t" c p c n { u k u 0 5 9 8

3. Costs of Repurposing the Band to Limit ITS Use to the Upper 30 Megahertz of the 5.9 GHz Band

35 : 0A K p"eqpfwekpi"qwt"cpnc{uku"qh"dgpghkvu"cpf"equvu."cp"wpfgtn{kpi"qdlgevkg"ku"vq"kf g p v k h { " d g p g h k v u" c p f" e q u v u" e c w u c n n { " t g n c v g f" v q" v j g" E q o o k u u k q p" c e v k q p" d g k p i" w p f g t v c m g p 0 5 9 9" C u" u e w j. " y g" e c p" e t g f k v" g e q p q o k e" h q u u g u" q p n { " k h" v j g { " y q w n f" d g" g z r g e v g f" v q" t g u w n v" h t q o" t g r w t r q u k p i" v j g" 7 0 ; " I J | " d c p f = " y g" e c p p q v" * c p f" u j q w n f" p q v + " c w g o r v" v q" c w t k d w g" n q u u g u" v q" v j k u" r t q e g g f k p i" v j c v" y q w n f" j c x g" q e e w t t g f" t g i c t f n g u u" q h" q w t" t w n g" e j c p i" g u 0 5 9 9" V j w u. " y g" t g l g e v" e q u v" s w c p v k h k e c v k p u" d c u g f" q p" g p w o g t c v k q p u" q h" v j g" g e q p q o k e" j c t o u" t g u w n v k p i" h t q o" r n k e g" t g r q t v g f" x g j k e n g" e t c u j g u" k p" v j g" W 0 U 0" v j c v" c t g" p q v" u r g e k h k e c n n { " v k g f" v q" e j c p i" g u" v q" K V U" u r g e v t w o 0 5 9 9 ; "

35 ; 0A K p"i g p g t c n. " e q o o g p v g t u" j c x g" r t q x k f g f" x g t { " n k o k v g f" k p h q t o c v k q p" v j c v" y q w n f" c n n y" w u" v q" s w c p v k h { " c p { " e q u v u" c u u q e k c v g f" y k v j" c" t g f w e i k q p" k p" K V U" u r g e v t w o 0" E g t v c k p" e q o o g p v g t u" r q k p v g f" v q" c p c n { u g u. " u e w j" c u" k p" v j g" P J V U C" X 4 X" P R T O. 5 : 2 n" u g g m k p i" v q" s w c p v k h { " u r g e k h k e" u c h g v { " d g p g h k v u" q h" K V U" v q" c t i" w g" v j c v" u e w j" d g p g h k v u" o c { " d g" f k o k p k u j g f" d { " v j g" E q o o k u u k q p 0" Y g" h k p f" v j c v" d g p g h k v u" c w t k d w g f" v q" K V U" k p" v j g u g" u w f k g u" c t g" n k m g n { " q x g t u c v g f" c p f" k p e r r t q r t k c v g" v q" x k g y" c u" e q u v u" t g u w n v k p i" h t q o" v j g" E q o o k u u k q p 0 u" r t q r q u c n 0" C u" f k u e w u u g f" c d q x g. " y g" h k p f" v j c v" v j g" 5 2" o g i c j g t v | " q h" u r g e v t w o" v j c v" k u" d g k p i" t g v c k p g f" h q t" K V U" c r r n k e c v k q p u" k u" u w h h k e k g p v" v q" u w r r q t v" o c p { " K V U" c r r n k e c v k q p u 0" H q t" g z c o r n g. " k p" g u v k o c v k p i" v j g" d g p g h k v u" q h" c" r t q r q u c n" v q" o c p f c v g" F U T E" d c u g f" x g j k e n g" v q" x g j k e n g" * X 4 X + " e q o o w p k e c v k q p u. " v j g" P J V U C" X 4 X" P R T O" h q w p f" v j c v" u w d u v c p v k c n" d g p g h k v u" e q w n f" d g" c e j k g x g f" w u k p i" 3 2" o g i c j g t v | " q h" K V U" u r g e v t w o. 5 : 3 n" 4 2" o g i c j g t v | " n g u u" v j c p" v j g" h

597" 5.9 GHz NPRM. "56"HEE" Tef"cv"34848/49." rctc0"87" (" p032; 0" U r g e k h k e c n n { . " v j g" T C P F" 7 0 ; " I J | " u v w f { " c v g o r v u" v q" g u v k o c v g" v j g" r g t e g p v" d { " y j k e j" I F R" y q w n f" k p e t g c u g" k p" t g u r q p u g" v q" c" d t q c f d c p f" u r g g f" r g t e g p v c i g" k p e t g c u g" * c p" g n c u v k e k v { + d { " t g i" t g u u k p i" " W 0 U 0" u c v g" I F R u" q p" W 0 U 0" u c v g" d t q c f d c p f" u r g g f u 0" T C P F" v j g p" w u g u" v j k u" g n c u v k e k v { " v q" r t g f k e v" v j g" c f f g f" I F R" d c u g f" q p" v j g k t" g u v k o c v g" q h" v j g" k p e t g c u g f" d t q c f d c p f" u r g g f" h t q o" t g r w t r q u k p i" 7 0 ; " I J | " u r g e v t w o 0" T C P F" 7 0 ; " I J | " U v w f { " c v" 3 6 / 4 3 0

598" V j g" 4 2 4 2" Y k H k H q t y c t f" U v w f { " c v g o r v g f" v q" t g u a n x g" q w t" e q p e g t p u" y k v j" v j g" t g i" t g u u k p" h q w p f" k p" v j g" T C P F" 7 0 ; " I J | " U v w f { " d { " k p e n w f k p i" s w c t v g t n { / n c i u" q h" I F R" c u" c p" k p f g r g p f g p v" x c t k c d n g" v q" e c r w t g" h c e v q t u" q o k v g f" h t q o" v j g" T C P F" t g i" t g u u k p 0" 4 2 4 2" Y k H k H q t y c t f" U v w f { " c v" 4 7 / 4 8 0" J q y g x g t. " v j k u" f q g u" p q v" c f f t g u u" q w t" e q t g" e q p e g t p v j c v" u r g g f u" e q w n f" d g" g z r n c k p g f" d { " I F R. " c u" y g" p q v g f" v j c v" I F R" e q w n f" f g v g t o k p g" u r g g f u" q x g t" n q p i" v k o g" r g t k f u" y j g p" y g" f k u e w u u g f" v j g" w u g" q h" n c i i g f" u r g g f u" k p" v j g" T C P F" 7 0 ; " I J | " U v w f { 0" 5.9 GHz NPRM. "56"HEE" Tef"cv"34848/49." rctc0"87" (" p032; 0

599" See" Q O D" E k t e w n c t" C / 6" c v" 4" * u c v k p i" v j c v" k p" g x c n w c v k p i" r t q r g t n { " v j g" d g p g h k v u" c p f" e q u v u" q h" t g i" w n c v k q p u. " y g" o w u v" g z r n c k p" j q y" v j g" c e v k q p u" t g s w k t g f" d { " v j g" t w n g" c t g" n k p m g f" v q" g z r g e v g f" d g p g h k v u + 0

59: " C u" c p" g z c o r n g" q h" j q y" c e v k q p u" t g s w k t g f" d { " c" t w n g" c t g" n k p m g f" v q" g z r g e v g f" d g p g h k v u. " Q O D" E k t e w n c t" C / 6" u w i i g u v u" v j c v" c i g p e k u" o k i j v" o k p f k e c v g" j q y" c f f k v k p c n" u c h g v { " g s w k r o g p v" y k n n" t g f w e g" u c h g v { " t k u m u 0" Y g" k p v g t r t g v" v j k u" i w k f c p e g" v q" o g c p" v j c v" y g" e c p p q v" c e e g r v" e q o o g p v g t" c u u g u o g p v u" q h" r t q u r g e v k x g" u c h g v { " k o r t q x g o g p v u" q t" t g f w e i k q p u" w p n g u u" v j g u g" c t g" n k p m g f" v q" v j g" E q o o k u u k q p u" r t q r q u c n 0" Q O D" E k t e w n c t" C / 6" c v" 4 0

59: " K p" f q k p i" u q. " y g" t g l g e v" e q o o g p v u" c f x c p e k p i" u e w j" s w c p v k h k e c v k q p u" h q t" v j g" r w t r q u g" q h" e q o r c t k p i" d g p g h k v u" c p f" e q u v u 0

5: 2 n" See P J V U C" X 4 X" P R T O 0

5: 3 n" P J V U C" X 4 X" P R T O. " : 4 H g f 0" T g i 0" 5 : . 7 . 5 ; 8 . : 5 ; : 8 0" U r g e k h k e c n n { . " P J V U C" r t q r q u g f" v q" t g s w k t g" d c u k e" u c h g v { " o g u u c i g" v t c p u o k u u k q p u" q p" c" u k p i n g" 3 2" o g i c j g t v | " e j c p p g n" r c k t g f" y k v j" u g e q p f c t { " e g n w n c t. " Y k / H k. " q t" u c v g n k v g" * e q v k p w g f i 0 +

urgetw o "vjcv" yg"tgvcckp"htq"KVU00"C f fvkqpcnm{ . "P J VUC" cpcn { uku"htqgecuvu"dgpgkhvu"dcugf"qp"vjg"ucvvg"qh" vgejppnqi { "kp"vjg"4232/4235"dcug"rgtkqf. "y jkej"nkmgn { "uwduvepvcn { "qxtgugvk o cvgu"vjg"dgpgkhvu"qh" FUTE" kp"ncvgt" { gctu. "y jgp"tgncpeg"qp"eq o rng o gpvct { "qt"uwduvkvvg"uchgv { "u { uvg o u" *g0i0. "dcugf"qp"ec o gtcu. " ncugtu. "cpf"tcfctu+ "y qwnf"nkmgn { "dg"htc" o qtg" ykfgrtgcf"vjcp"kp"4232/423505:4m "Dgecwug"eq o o gpvgtu" ppgvjgt"ujqy"vjcv"j { rqvjgvkecn"KVU"dgpgkhvu"fguetkdgf"kp"vjg" P J VUC"cpf"qvjgt"uwfkgu"y qwnf"dg"nquv"cu"c" tguwnv"qh"qwt"cevkqpu. "pqt"guvcdnkuj"vjcv"uwej"dgpgkhvu"ctg"ceewtcvgn { "ecnewncvfg. "y g"tggeve"eq o o gpvu" c fxcpeki p" swcpvkhkecvkqpu"htq o "vjgug"uwfkgu05:5m

3620A Oqtg"i gpgtcnm { . "y g"fq"pqv"dgngxg"vjcv"jku"rtqeggfkipi"y knn"ngcf"vq"eqi pklcdng"equvu"fwg" vq"cwvq o qdng"eqnknkqpu"vjcv" o c { "dg"nkpmgf"vq"qwt"cevkqpu0"E q o o gpvgtu"cti wg"vjcv"egtvckp"cfxcpegf" hgcvwtgu. "kpenw fkipi"vjqug"rgtvckpkipi"vq"nkhg"cpf"rtqrgtv { . "o c { "tgswktg"cf fvkqpcn"dcpf ykf vj05:6m "P J VUC0u" qy p"rtkt"cpn { uku"uw i iguvu. "jqy gxgt. "vjcv"X4X"uchgv { "cr rncecvkqpu"vjcv"eqwnf"gnk o kpevg"cncti g"rtqrqtvkqp" qh"etcujgu" o c { "tgswktg" o wej"nguu"urgetw o05:7m "Cpf"y jkng"eq o o gpvgtu"urgewncvg"cdqw"egtvckp"cf fvkqpcn" dgpgkhvu" *k0g0. "vq"rgfgvutkcpu+. "vjg { "jcxg"pqv"fg o qpvtcvgf"y jgvjgt"uwej"dgpgkhvu"y qwnf"ctkug"pqt" swcpvkhkf"vjg"kpets o gpvcn"dgpgkhv"i kxgp"vjg"X4X"uchgv { "cr rncecvkqpu"vjcv"y qwnf"dg"gzrgevfg"vq"dg" rtgugtxg00"Hwtvjgt. "eq o o gpvgtu"jcxg"pqv"fg o qpvtcvgf"vjcv"cfxcpegf"cr rncecvkqpu. "gxgp"kh"rtguw o gf"vq" qhgt"cf fvkqpcn"uchgv { "dgpgkhvu. 5:8m "pggf"vq"tgn { "qp"KVU"urgetw o "qt"y qwnf"dg"ncti gn { "qdxkcvgf" d { "fgxgnqrkipi"uchgv { "hgcvwtgu"qvwukfg"KVU0

3630A Eq o o gpvgtu"cnuc"enck o "xctkqu"dgpgkhvu"qh"KVU"htq o "pqp/uchgv { "cr rncecvkqpu00"Cu" gzrnckpgf"cdqg. "y g"fgenkpg"vq"tgn { "wrqp"guvk o cvgu"qh"wgug"qh"KVU"urgetw o "htq"cr rncecvkqpu"nkmg"tqcf" ygcvjgt"lphqt o cvkqp"vgejppnqi kgu"vjcv"ctg" o qtg"cr rtrqtkcvgn { "rtqxfkf"wkup i"qvjgt"urgetw o "dcpfu"pqv" fgfkcecvgf"htq"uchgv { /qh/nkhg"cr rncecvkqpu00"Oatgqxtg. "y g"hkpf"vjcv"eq o o gpvgtu"jcxg"pqv"ghhgvkxgn { " fg o qpvtcvgf"vjcv"cfxcpegf"KVU"hgcvwtgu"y qwnf"tgfweg"eqp i guvkqp"qt"gpxtkq o gpvcn"qt"qvjgt"equvu"vjcv"ctg" pqv"fkgtvgn { "tgnvcgf"vq"uchgv { 00"Y g"jcxg"cntgcf { "pqvgf"vjcv"52" o g i c j g t v | "qh"urgetw o "ku"uwkhkegpv"vq" uwr rqtv" o cp { "KVU"cr rncecvkqpu"cpf"gzkvkpi"uwfkgu"fq"pqv"ujqy"vjcv" o qtg"urgetw o "y qwnf"i kxg"tkug"vq" c f fvkqpcn"dgpgkhvu05:9m "Hqt"gzc o rng. "y jgtgcu"eq o o gpvgtu"enck o "vjcv"eq o o gtekn"rncvqppkipi"u { uvg o u"ctg"

eq o o wpkecvkqpu00" P J VUC"X4X"PRTO. " : 4"Hgf00" Tgi00"5 ; 8 ; : 5 ; : 8000" P J VUC0u" cpcn { uku"hgewugf"qp"vjg"kpvtgugvckp" o qxg o gpv"cuukuv"cpf"nghv"wtpt"cetquu"rcvj"cr rncecvkqpu. "uchgv { "dgpgkhvu"vjg"ci gpe { "xkygf"cu"dgkpi"ngcu"nkmgn { "vq"dg" tgrncecvgf" d { "cnvgtpcvkg"pqp/KVU"uchgv { "gpjcpeki p"vgejppnqi kgu00" P J VUC"X4X"PRTO. " : 4"Hgf00" Tgi00"5 ; 8 ; 0

5:4m "Uk o knctn { . "vjg" Wpkxgtukv { "qh" Okejkip"X4X" Tgrqtv"uqwi jv"vq"guvk o cvg"vjg"ew o wncvkg"equv"cuuqekcvgf"y kvj" c" f gnc { " kp" o c p f c v k p i " X 4 X " e c r c d n k v { " q p " p g y " x g j k e n g u " e c w u g f " d { " y c k v k p i " h q t " c " p g y " v g e j p p n q i { " n k m g " E / X 4 Z " * W p k x g t u k v { " q h " O k e j k i c p " X 4 X " T g r q t v " c v 4 / 6 + 0 " V j g " t g r q t v " t g n g f " q p " v j g " e q w p v g t h c e w c n " c u u w o r v k p " v j c v " c " F U T E / d c u g f " X 4 X " v g e j p p n q i { " e q w n f " d g " t g c f { " v q " f g r n q { " q p " c m " p g y " x g j k e n g u " u c t v k p i " k p " 4 2 3 ; 0 " D g e c w u g " y g " m p q y " v j k u " y c u " p q v " v j g " e c u g . " v j g " g p u w k p i " e q u v " g u v k o c v g " k u " o c f g " k p c e e w t c v g " d { " e q p v k p w f g " f g x g n q r o g p v " q h " E / X 4 Z " v g e j p p n q i { 0

5:5m "Urgkhkecn { . "y g" flucitgg"ykvj"eq o o gpvu"qh" Cmkcpeg"htq" Cwvq o qvkg"Kppqxcvqkq. "FUTE" Cwvq"Uchgv { "Cmkcpeg"= Ect"4"Ect. "J CVEK. "KVU" o g t k e c . " P Z R " U g o k e q p f w e v t u . " R c p c u a p k e . " V z F Q V . " w / d n q z . " K G G G " 3 8 2 ; " Y q t m k p i " I t q w r . " c p f " W U " V C I " q p " v j k u " r q k p w 0

5:6m "See, e.g., "Ect"4"Ect"Eq o o gpvu"cv"4/6="Eqppkpgpvcn"Eq o o gpvu"cv"6/7="W0U0" FQV" Tgrn { "cv"52/540

5:7m "P J VUC"X4X"PRTO. " : 4"Hgf00" Tgi00"5 ; 7 . 5 ; 8 ; : 5 ; : 800

5:8m "See e.g., "7 I C C " Eq o o gpvu"cv"4 : /530

5:9m "Hqt"gzc o rng. "gzvtrcncvkipi"htq o "guvk o cvgu"kp"c" W0U0" FQV" eqppgevfg" xgj keng" tgrqtv. "eq o o gpvgtu" *WU"VC I " Eq o o gpvu"cv"6. " : " F 0 " T k e j c t f " T q { " T g r n { " c v " 5 + " e n c k o " c p " g u v k o c v g f " c p p w c n " t g f w e v k p " k p " v t c h h k e " q h " 4 : 2 " o k n m k p " j q w t u " c p f " t g f w e g f " e c t d q p " f k z k f g " g o k u u k q p u " q h " 6 2 2 . 2 2 2 " v q p u " c u u q e k c v g f " y k v j " X 4 K 0 " J q y g x g t . " v j k u " c p f " q v j g t " u w f k g u " f q " p q v " u w k r w c v g " v j c v " 9 7 " o g i c j g t v | " q h " K V U " u r g e t w o " k u " p g e g u a c t { " v q " c e j k g x g " v j k u 0 " W 0 U 0 " F Q V " 4 2 3 7 " E q p p g e v g f " X g j k e n g " T g r q t v " c v " 3 : 0 " K p " r c t v k e w n c t . " o c p { " e q p p g e v g f " x g j k e n g " u w f k g u " u w f { k p i " v j g " r q v g p v k c n " g p x k t q p o g p v c n " d g p g h k v " q h " K V U " c u u g u u " v j g " g h h k e c e { " q h " c n i q t k v j o u " * g 0 i 0 . " h q t " u k i p c n " e q p v t q n + " k p " c " u k o w n c v g f " g p x k t q p o g p v " k t g u r g e v k x g " q h " v j g " w p f g t n { k p i " e q o o w p k e c v k q p u " v g e j p p n q i { " q t " u r g e t w o " d c p f " v j c v " r g t o k v u " e q p p g e v g f { 0 " " See e.g., " J c q " N k w . " Z k c q / [w p " N w . " c p f " U v g x g p " G 0 " U j n c f x g t . " V t c h h k e " u k i p c n " e q p v t q n " d { " n g x g t c i k p i " E q q r g t c v k x g " C f c r v k x g " E t w k u g " E q p v t q n " * E C E E + " x g j k e n g " r n c v q p p k i p i " e c r c d n k v k g u . " 3 2 6 " V t c p u r q t v c v k p " T g u g e t e j " R c t v " E < G o g t i k p i " V g e j p p n q i k g u " * 4 2 3 ; + = " L a p i t { g a n " L g a p i " g v " c n 0 . " Implementation of Model Predictive Control into Closed-Loop Micro-Traffic Simulation for Connected Automated *eqpvkpwgf i 0+

g z r g e v g f " v q " k o r t q x g " h w g n " g h h k e g p e { " d { " 9 0 4 7 " . 5 : : " q v j g t " r w d n k e " g u v k o c v g u " q h " v j g u g " k o r c e v u " c t g " n q y g t . 5 : : " c p f " v j g t g " o c { " d g " q h h u g v k p i " e q p i g u v k q p . " u c h g v { . " c p f " q v j g t " e q p e g t p u " v j c v " e q w n f " f k o k p k u j " v j g " d g p g h k v u " h t q o " v j k u " v g e j p q n q i { " * k h " p q v " g n k o k p c v g " v j g o " g p v k t g n { + . 5 : 2 " n g c f k p i " e g t v c k p " v t w e m " o c p w h c e v w t g t u " v q " t g e q p u k f g t " k v u " w u g 5 : 3 "

3640A Pqt"fq"y g"xkg y"v j g"v t c p u k v k q p " d { " g z k u v k p i " F U T E " n k e g p u g g u " v q " v j g " w r r g t " 5 2 " o g i c j g t v | " k p " v j g " 7 0 ; " I J | " d c p f " v q " d g " c " u w d u v c p v k c n " e c w u g " q h " f g n c { " u " v q " f g r n q { " o g p v " q h " d c u k e " K V U " c r r n k e c v k q p u " k p " v j g " h q t g u g c d n g " h w w t g 0 " " H k t u v . " c u " q v j g t " e q o o g p v g t u " r q k p v " q w v . " y g " p q v g " v j c v " E / X 4 Z " j c u " j c f " p q " u r g e v t w o " f g f k e c v g f " v q " k v u " f g r n q { " o g p v . " d w v " v j k u " j c u " p q v " r t g x g p v g f " t c r k f " k p p q x c v k q p " k p " v j c v " v g e j p q n q i { . " y j k e j " k p " r c t v . " p g e g u u k v c v g u " v j k u " r t q e g g f k p i 0 5 : 4 " " U g e q p f . " v j g " d c p f " r n c p " r t q r q u g f " d { " C n k c p e g " h q t " C w v q o q v k x g " k p p q x c v k q p " u w i i g u v u " v j c v " c " v t c p u k v k q p " d { " F U T E " n k e g p u g g u " y q w n f " j c x g " d g g p " p g e g u u k v c v g f . " g x g p " k h " q w t " t w n g u " r t q e g g f g f " g z c e v n { " c u " C C K " g p x k u k q p g f 0 5 : 5 " " C n k c p e g " h q t " C w v q o q v k x g " k p p q x c v k q p " r t q r q u c n " k p k v c n n { " u v k r w n c v g u " c " v t c p u k v k q p " q h " F U T E " n k e g p u g g u " h t q o " v j g " w r r g t " 4 2 " o g i c j g t v | " q h " v j g " 7 0 ; " I J | " d c p f " v q " o c m g " y c { " h q t " E / X 4 Z 0 5 : 6 " " V j g " r t q r q u c n " v j g p " u v k r w n c v g u " c " u g e q p f " v t c p u k v k q p " c h v g t " h x x g " { g e t u . " h q n n q y k p i " u g n g e v k q p " q h " c " u k p i n g " v g e j p q n q i { " * g k v j g t " F U T E " q t " E / X 4 Z + " y k v j " c " v g p / { g c t " r j c u g q w v " r g t k f " h q t " v j g " v g e j p q n q i { " v j c v " f q g u " p q v " r t g x c k n 0 5 : 7 " " D g e c w u g " v j g t g " k u " p q " i w e t c p v g g " v j c v " F U T E " y q w n f " r t g x c k n . " v j k u " y q w n f " h q t g u v c n n " k v u " v t c p u k v k q p " d { " u g x g t c n " { g e t u . " g x g p " c u u w o k p i " k v " y c u " w n v k o c v g n { " f g v g t o k p g f " v q " d g " v j g " r t g x c k n k p i " v g e j p q n q i { " o c p " c u u w o r v k q p " y g " h k p f " w p e q p x k p e k p i " h q t " v j g " t g c u q p u " f k u e w u u g f " c d q x g 0 " " O q t g q x g t . " y g " h k p f " v j c v " C C K 0 u " r t q r q u g f " e q o o k v o g p v " v q " f g r n q { " 7 " o k n k q p " t c f k q u " k h " v j g " g p v k t g " 7 0 ; " I J | " d c p f " k u " r t g u g t x g f " h q t " K V U " k u " p q v " g p h q t e g c d n g . 5 : 8 " c p f " k o r q t v c p v n { " t g r t g u g p v u " c " t g n c v k x g n { " o q f g u w " K V U " f g r n q { " o g p v " v j c v " k u " p q v " p g e g u u c t k n { " c v " x c t k c p e g " y k v j " f g r n q { " o g p v u " v j c v " o k i j v " d g " c p v k e k r c v g f " y k v j q w v " v j g " r t q r q u c n 0 5 : 9 " " V j g " r t q r q u g f " e q o o k v o g p v " c p f " d c p f " r n c p "

Vehicle."74"KHCE/RcrgtuQpNkpg*423; += " [w p h g k " J q w " c p f " S k p i " J g . " C o o p e r a t i v e a n d I n t e g r a t e d V e h i c l e a n d I n t e r s e c t i o n C o n t r o l f o r E n e r g y E f f i c i e n c y (C I V I C - E 2) . " 3 ; " K G G G " V t c p u c e v k q p u " q h " K p v g n k i g p v " V t c p u r q t v c k q p " U { u w g o u " * 4 2 3 : + 0 "

5: "K V U " C o g t k e c " E q o o g p v u " c v " 4 9 0 "

5: "See, e.g., Fgrctv o g p v " q h " G p g t i { " Q h h k e g " q h " G p g t i { " G h h k e g p e { (" T g p g y c d n g " G p g t i { . " P l a t o o n i n g T r u c k s t o C u t C o s t a n d I m p r o v e E f f i c i e n c y " * H g d 0 7 . " 4 2 3 : + . " j v r u k l y y y 0 p g t i { 0 i q x l e g t e l c t v k e n g u l r n c v q q p k p i / v t w e m u / e w / e q u / c p f / k o r t q x g / g h h k e g p e { " * e k v k p i " c " h k i w t g " q h " 6 " + 0 "

5: 2 " T g e g p v " t g u g t e j " k u " e q p e g t p g f " y k v j " r q v g p v k c n " c f x g t u g " k o r c e v u " q h " v t w e m " r n c v q q p u " q p " q v j g t " v t c h h k e " c p f " u c h g v { 0 " " S e e e . g . " O g p i " Y c p i . " g v " c n 0 . " B e n e f i t s a n d R i s k s o f T r u c k P l a t o o n i n g o n F r e e w a y O p e r a t i o n s N e a r E n t r a n c e R a m p . " 4 8 9 5 " V t c p u r q t v c k q p " T g u g t e j " T g e q t f . " 7 : : " * 4 2 3 ; += " V k o q " H e d g t . " g v " c n 0 . " E v a l u a t i n g T r a f f i c E f f i c i e n c y a n d S a f e t y b y V a r y i n g T r u c k P l a t o o n C h a r a c t e r i s t i c s i n a C r i t i c a l T r a f f i c S i t u a t i o n . " V t c p u r q t v c k q p " T g u g t e j " T g e q t f . " F Q K " 3 2 0 3 3 9 9 1 2 5 8 3 3 ; : 3 4 2 ; 5 7 6 6 5 " * 4 2 4 2 + 0 "

5: 3 " R t g u u " T g n g c u g . " F c k o n g t . " F c k o n g t " V t w e m u " k p x g u v u " j c n h " c " d k n k q p " G w t q u " k p " j k i j n { " c w v q o c v g f " v t w e m u " * L e p 0 4 2 3 ; + . " j v r u k l y y y 0 p g t i { 0 i q x l e g t e l c t v k e n g u l r n c v q q p k p i / v t w e m u / e w / e q u / c p f / c w v q o c v g f / v t w e m u 0 z j v o n A q k f ? 6 4 3 : : 4 6 9 " * F c k o n g t " p q v g u " v j c v " k v " k u " o t g e u u g u u k p i " k v u " x k g y " q h " r n c v q q p k i o " d g e c w u g " { g e t u " q h " v g u v k p i " o u j q y " v j c v " h w g n " u c x k p i u . " g x g p " k p " r g t h g e v " r n c v q q p k i " e q p f k v k q p u . " c t g " n g u u " v j c p " g z r g e v g f " c p f " v j c v " v j q u g " u c x k p i u " c t g " h w t v j g t " f k o k p k u j g f " y j g p " v j g " r n c v q q p " i g v u " f k u e q p p e v g f " c p f " v j g " v t w e m u " o w u v " c e e g n g t c v g " v q " t g e q p p g e v 0 0 " " F c k o n g t " h w t v j g t " k p f k e c v g f " v j c v " k v u " c p c n { u k u " o u j q y u " p q " d w u k p g u u " e c u g " h q t " e w u v q o g t u " f t k x k p i " r n c v q q p u o " k p " v j g " W 0 U 0 + "

5: 4 " D t c v n g " 7 0 ; " I J | " C p c n { u k u " c v " 3 2 / 3 3 0 "

5: 5 " N g w g t " h t q o " L q j p " D q | | g n n c . " R t g u k f g p v " c p f " E G Q . " C n k c p e g " h q t " C w v q o q v k x g " k p p q x c v k q p " * C C K + . " v q " G n c k p g " E j c q . " U g e t g v c t { " W U " F Q V . " G V " F q e m g v " P q 0 3 ; / 3 5 : . " c v " 3 / 4 " * h k n g f " C r t 0 4 : . " 4 2 4 2 + * C C K " C r t 0 4 : . " 4 2 4 2 " E x P a r t e + 0 "

5: 6 " C n k c p e g " h q t " C w v q o q v k x g " k p p q x c v k q p " C r t 0 4 : . " 4 2 4 2 " E x P a r t e " c v " 3 0 "

5: 7 " C n k c p e g " h q t " C w v q o q v k x g " k p p q x c v k q p " C r t 0 4 : . " 4 2 4 2 " E x P a r t e " c v " 3 / 4 0 "

5: 8 " K p " r c t v k e w n c t . " v j g " o k p f w u t { / y k f g " d w k n f " q w v " t g s w k t g o g p v o " * C n k c p e g " h q t " C w v q o q v k x g " k p p q x c v k q p " C r t 0 4 5 . " 4 2 4 2 " E x P a r t e " c v " 4 + " f q g u " p q v " n c { " q w v " c p " g p h q t e g o g p v " o g e j c p k u o " h q t " k p f k x f w c n " r c t v k e k r c p v u " v q " g p u w t g " v j c v " v j g " r t q r q u g f " e q o o k v o g p v " k u " u c v k u h g f " k p " v j g " c i i t g i c v g 0 " " S e e " P E V C " T g r n { " c v " 6 2 0 "

5: 9 " H q t " k p u v c p e g . " v j g " r t q r q u g f " e q o o k v o g p v " k u " k p e t g o g p v c n " v q " g z k u v k p i " f g r n q { " o g p v u " c p f " e q p u k u v " q h " v y q . " e q o r g v k p i . " p q p / k p v g t r g t c d n g " v g e j p q n q i k e u 0 " " O q t g q x g t . " g x g p " k h " g e j " t c f k q " t g r t g u g p v g f " f g r n q { " o g p v " q h " c " u k p i n g " X 4 Z " e c r c d n g " x g j k e n g o y j k e j " v j g " r t q r q u g f " e q o o k v o g p v " o c m g u " e n g c t " k u " h k m g n { " p q v " v j g " e c u g o v j g " h k p c n " f g r n q { " o g p v " y q w n f " t g r t g u g p v " * e q p k p w g f i 0 + "

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IV. FURTHER NOTICE OF PROPOSED RULEMAKING

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3670A Vjg"Hktuv"Trgrtv"cpf"Qtfgt"fgvgt"okpgf"vjcv"KVU"qr"gtcvkqpu"qp"ej"cppgnu"kp"vjg"70:72/70:;7" I"J|"dcpf"rqtvkqp"qh"vjg"70;"I"J|"dcpf"y"knk"dg"tgswkgtf"vq"egcug"y"kvj"kp"app"{"gct"qh"vjg"ghgvekvxg"fcvg"qh"vjg"Hktuv"Trgrtv"cpf"Qtfgt."cpf"vjcv"KVU"qr"gtcvkqpu"kp"vjg"tgxkugf"KVU"dcpf"wnvk"ocvgn{"o"uwv"uwg"E/X4Z"vgejppnqi{"kpuvgc"qh" FUTE/dcugf"vgejppnqi{"0"Kp"vjku"HWt"vjgt" Pqvkeg."y"g"cf"ftguu"vjg"tg"ocpkpi"kuuwgu"dghqte"vjg"Eq"o"okuu"qp"cu"y"y"g"hkpcnk"i"v"vjg"70;"I"J|"dcpf"tguvtevwtkpi"vq"vjg"o"qf"khkgf"dcpf"rnep"0"U"rgekhecn{"."y"g"cf"ftguu"3+"vjg"vtcpukvkqp"qh"cn"KVU"qr"gtcvkqpu"vq"E/X4Z/dcugf"vgejppnqi{"4+"vjg"eq"fkhekcvkqp"qh"E/X4Z"vgejpkcn"rctc"ogvgtu"kp"vjg"Eq"o"okuu"qp"tu"twngu"5+"qv"jgt"vtcpukvkqp

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622"See, e.g.."Eqntcfq" FQV"Eq"o"ogpvu"cv"3/4="I"qgt"ikc" FQV"Eq"o"ogpvu"cv"60

623"Y"gpqv"vjcv"vjku"ku"pqv"y"kvj"uvcpfkpi"egtvcv"eq"o"ogpvgtu"cnvgtpcvkxg"ct"i"wo"gpvu"htq"y"j{"vtcpukvkqp"equvu"ctg"nkmg{"qxgtuv"v"v"Ugg."go"i0."Dtcvng"70;"I"J|"Cpcn"uku"cv"35/370

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A. Transitioning Licensed ITS Operations in the 5.9 GHz Band to C-V2X Technology

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1. Timeline

3690A Kp"vjg"Hktuv"Trgrqt"cpf"Qtfgt."y g"tgswkgt"vjcv"KVU"qrgtcvkqpu"kp"vjg"70: ; 7/70; 47" I J | " dcpf"wnv o cvgn {" o wuv"vug" E/X4Z"vgejpnqi {0"kp"qtfgt"vq"eq o rnvvg"vjg"vtcpukvqp"qh"vjg"dcpf"vq" E/X4Z." y g"rtqrug"vjcv"cmn"KVU"qrgtcvkqpu"kp"vjg"70: ; 7/70; 47" I J | "dcpf"gvjgt"eqpxgt"vq" E/X4Z"qt"egcug" qrgtcvkpi"v yq {"gctu"chvt"vjg"ghhgevkg"fcvg"qh" c"Ugeqpf"Trgrqt"cpf"Qtfgt"cfqrvf"kp"tguqqug"vq"vjku" Hwtvjgt" Pqvkeg0" Y g"uggm"eq o o gpv"qp"vjku"rtqrucn0"

36:0A Ukpeg"y g"hktuv"rtqrugf"kp" Fgeg o dgt"423 ; "vq"cwvjqt | g" E/X4Z"qrgtcvkqpu"kp"vjg"70; " I J | " dcpf." o cpwhcevtgtu"cpf"nkegpuggu"jcxg"jcf"uki pkhkecpv"vk o g"vq"dgikp"rncppki"ht"vjg"rqukdng"gpvt {"qh" E/ X4Z"kpq"vjg"dcpf0" Y g"uggm"eq o o gpv"qp"vjg"uvvg"qh"fgxngqr o gpv"cpf"cxckncdng {"qh" E/X4Z"gs wkr o gpv." dqvj"tqcfukfg"cpf"qp/dqctf"wpkvu0" Y g"dgngxg"vjcv"y q/ {gctu"dg {qp"vjg"ghhgevkg"fcvg"qh"vjg"twngu"vjg" Eq o o kuukqp"cfqrvu"kp"vjg"Ugeqpf"Trgrqt"cpf"Qtfgt" yknn"cmnqy"vjg"KVU"uwr rn {"ejckpu"vq"dgeq o g"tgrngvg" ykvj" E/X4Z"gs wkr o gpv0"Vjku"vk o ghtc o g"ku"eqpukv"gpv" ykvj"vjg" Fgrctv o gpv"qh"Vtcurqtcvkqpu" xky"vjcv" xgjkeng" o cpwhcevtgt"rtqfwev"e {engu"pgeguukcvg"v yq {"gctu"ngcf"vk o g"vq"gpuwtg"pgy" X4Z"gs wkr o gpv"ku" kpucmgf"kp"pgy" xgjkengu0626" Cpf"kp"uq o g"kpucpegu."vjku"vk o ghtc o g" o c {"pq"dg"pggf"cu"uq o g" eq o o gpvgtu"jcxg"gzrnckpgf"vjcv"vjg {"jcxg"entgcf {"fgrnq {gf"gs wkr o gpv"vjcv"ku"dqvj" FUTE"cpf" E/X4Z" eq o rcvkdng0627" Y g"uggm"eq o o gpv"qp" y jgvjgt" o cpwhcevtgtu"ecp"fkvtdwvg" E/X4Z"gs wkr o gpv"vj tqwi j" vjgkt"gzukvki"uwr rn {"ejckpu."cpf"qp" y jgvjgt" xgjkeng" o cpwhcevtgtu"ecp"kpucm" E/X4Z"gs wkr o gpv"kpq"pgy" xgjkengu." y kvj"kp"vjku"vk o ghtc o g0" Oqtqxtg." y g"gzrgev"vjcv" o cp {"nkegpuggu" yknn"dgikp"rncppki"ht"vjg" gxgpwcn"vtcpukvqp"vq" E/X4Z"pqy"cpf."vjwu." o c {"vcmg"cfxcpcig"qh"cxckncdng"qrrqtwpkvku"vq" k o o gfkvgn {"qrgtcvg" E/X4Z"hccknkvgu"kp"vjg"wr rgt"52" ogicjgtv | "qh"vjg"dcpf"wpfgt"qwt"UVC."gzrgtk o gpvca" nkegpukpi."qt"qvjgt"gzukvki"tg i wncvt {"rtqeguu" ykvj"qvw"htuv"k o rng o gpvkpi"kpvgtk o "FUTE"qrgtcvkqpu0" Y g" uggm"eq o o gpv"qp"vjg"pw o dgt"qh"nkegpuggu"vjcv" o c {"fgekfg"vq"qrgtcvg"kp"uwej" c"hcujkqp"cpf"vjg"pw o dgt" vjcv"rncp"vq"eqpvkpwg"qhhtkpi" FUTE"kp"vjg"52/ ogicjgtv | "dcpf"fwtkpi"vjg"vtcpukvqp"rgtkf0" Y g"cuu o g" vjcv"vjg"vtcpukvqp"rtqeguu"vq" E/X4Z" y qwnf"rtk o ctkn {"kpxqng"tgrnceki" FUTE"vtcpu o kvgtu" ykvj" E/X4Z" vtcpu o kvgtu."ukpeg"y g"rtqrug" E/X4Z"vgejpkcn"twngu"eqpukv"gpv" ykvj"vjg"ewttgpv"twngu"ht" FUTE"cpf" vjgthqtg"pq"cpvgppc"ejcpigu"ctg"pggf"vq"eqxt"vjg"uc o g"ctgc"dcugf"qp"vjg"kf gpkvkcen"rtqrcicvkqp" ejctcevgtkvku"dgvy ggp" FUTE"cpf" E/X4Z0" Y g"uggm"eq o o gpv"qp"vjg"uvgru"kpqngxf" ykvj"eqpxgtvki"cmn" KVU"qrgtcvkqpu"kp"vjg"70; " I J | "dcpf"vq" E/X4Z"vgejpnqi {"cpf"vjg"gzrgev"vk o g"vq"eq o rnvvg"vjg"gpvktg" rtqeguu0" Y g"pqvg"vjcv."cu"uvkrwncvgf"kp"vjg"Hktuv"Trgrqt"cpf"Qtfgt."nkegpuggu" yknn"pq"pggf"vq"kpvkcvg" ejcpigu"vq"vjgkt"cwvjqt | cvkqpu" y jgp"vjg {"vtcpukvqp"vq" E/X4Z="vjg" { "uk o rn {" yknn"pggf"vq"vug"gs wkr o gpv" vjcv" o ggvu"vjg"qrgtcvkqpu"cpf"vgejpkcn"twngu" y g"cfqrv"kp"vjg"Ugeqpf"Trgrqt"cpf"Qtfgt"ht" E/X4Z"

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vgejppnqi { 0"kh." j q y xgt." c"nkegpugg"pggf u"vq"eqpewtgpvn { " o cmg" cflwuv o gpvu"vq"kvu"u { uvg o "vq"cff"ukvgu." kpetgcug"rqygt."qt" o qfkh { "g o kuukqpu."v j qug"ejcpigu"y knm"tgs wktg" o qfkhkecvkqpu"vq"vjg"wpfgtn { kpi "TUW" tgi kувtcvkqp"kpht o cvkqp0

36;0A Y g"cnug"uggm"eq o o gpv"qp"j q y"vq"vtgecv" FUTE"QDWu"cv"vjg"hkpcn"vtpukvqp"fcvg0" Ecp" o cpwhcevtgtu"qt" FUTE"u { uvg o "qrgtcvqtu"ugpf"qxgt/vjg/ckt"kpwtwevkqpu"vq"vjgug"wpkvu"vq"vwtp"qhhA" Ecp" QDWu"dg" o qfkhkgf"vj tqwi j"uqhvyctg"qt"jctfyctg"ejcpigu"vq"qrgtcvg"wukpi" E/X4Z/dcugf"vgejppnqi { A" Cdugpv"qvjgt"qrgtcvki" FUTE"kphtcuvtwevtg"*uwej"cu" TUWu+." y qwnf"QDWu"eqpvkpwg"vq"eq o o wpkecvg"ykvj" gcej"qvjgt"cpf."kh"uq." y jcv"y qwnf"uwej"eq o o wpkecvkqpu"gpvcknA"Ku"vjgtg"cp { "rqvgpvkca"ht"jct o hwn" kpvgtgtgpeg"kpq" E/X4Z"qrgtcvki"v jcv"eqwnf"qewt"kh" FUTE"QDWu"eqpvkpwg"vq"qrgtcvg"chvgt"vjg"hkpcn" vtpukvqp"fcvg"cpf."kh"uq." j q y"ecp"uwej"kpvtgtgpeg"dguv"dg"rtxgvpvfa" Y g"uggm"eq o o gpv"qp"qwt" rtqrugf"vyq/ { gct"uwpugv"fcvg"ht" FUTE/dcugf"QDW"qrgtcvki"cpf"cp { "cmvgtpcvkg"fcvg"vjcv"eq o o gpvgtu" oki jv"uw i iguv0"Eq o o gpvgtu"ujqwnf"dg"urgekhe"cu"vq"vjg" o gtkvu"qh"cp { "fcvg"vjg { "tgeq o o gpf"ht"egcukpi" FUTE"qrgtcvki"kp"vjg"70; " I J | "dcpf0

3720A Hkpcn { ."tgeq i pk | kpi "v jcv"QDWu"ctg"nkegpugf" d { "twng"wpfgt"rctv"; 7628" cpf."cu" c"tguwnv."v j g" Eq o o kuukqp"fqgu"pq" j cxg"fgvckngf"kpht o cvkqp"cp"tgeqtfu"qp"vjg"gzcev"pw o dgt"cpf"nqecvki"qh"wgutu"qh" uwe j "gs wkr o gpv." y g"uggm"eq o o gpv"qp" y jgvjgt"vjgtg"ctg"cp { "urgekhe"kuuwgu"tgncvgf"vq" o qfkh { kpi "QDWu" v jcv"ctg"pq"tghgevgf"kp"vjg"swgvkqpu"catgcf { "tckugf0"Cu"cp"kpvkcn" o cvgt." y g"cuuw o g"vjcv" o quv"QDWu" u j qwnf"dg"gcukn { "kfgpvkkgf"dgecwug"xgt { "hg y" xgjkengu"uqnf"vq"fcvg"ctg"gs wkr r g f" y kvj "QDWu"cpf"vjg"xcv" o clqtqv { "qh"gzkuvkpi"wpkvu"ctg"cuuqekcvgf" y kvj "vjg"xctkqu"KVU"vtkn"rtqi t c o u"qewtktpi"vj tqwi j qwv"vjg" W0U0" Y g"uggm"eq o o gpv"qp"v jku"pqvki" Ctg"vjgtg"guvk o cvgu"qh"vjg"pw o dgt"qh" xgjkengu"qp"vjg"tqcf"vqf c { "v jcv" kpeqtrqtcvg" FUTE/dcugf"QDWu"kpfgrgpfgpv"qh" c"vtkn"qt" rknqv"rtqi t c o "k0g0."cu" rctv"qh" c"eq o o gtekn" fgrnq { o gpv"qh" FUTE"ugtxkegu+A" Fqgu"vjg"Eq o o kuukqp"pggf"vq"vcmg"uvgru"vq" o cmg"qypgtu"qh"vjgug" xgjkengu"cyctg"qh"vjg"ejcpigu"dgkpi"cfqrvgfA"Qt" y qwnf"cwvq o qdkg" o cpwhcevtgtu"vcmg"r tk o ct { " tguqpukdnkv { "ht"pqvkh { kpi "v jgkt"ewuvq o gtu"qh"vjgug"twng"ejcpiguA"Kh"vjg"Eq o o kuukqp"ujqwnf" o cmg" qypgtu"cyctg"qh"twng"ejcpigu"chhgevkpi"QDWu."vjgp"j q y"ujqwnf"vjg"Eq o o kuukqp"eqpfwev"uwej"eqpuw o gt" qwtgcejA"Eq o o gpvgtu"ujqwnf"rtqxfk"urgekhe"fgvcknu"vq"lwvkh { "v jgkt"rqvki"vq"tctfki"qwt"rtqrqucu0

2. Technical Parameters

3730A V jg"Eq o o kuukqpou"KVU"twngu"ugv"htvj" d"cu"vgejpkcn"rctc o gvgtu"uwej"cu"rqygt."jgki jv." cpf"cxckncdng"ejcppgnu0629" Hwtvjgt."vq"gpwtg"kpvtqrgtcdknkv { " y kvj kp"vjg"KVU." FUTE"qrgtcvki"ctg" tgs wktg"vq"cfjgtg"vq"vjg"rtqxkukqpu"urgekhe"kp"vjg"CUVO"G4435/25"Uvcpfctf"*CUVO/FUTE+." y jke j"ku" kpeqtrqtcvgf" d { "tghgtgpeg"kp"vjg"Eq o o kuukqpou"twngu062:" V jgug"twngu"fkxkfg"vjg"ewtgpv"70; " I J | "dcpf"kpqv" ugxgp."32/ o g i c jgtv | "ejcppgnu." y kvj"cp"cmqy cpeg"vq"eq o o dkpg"vyq"rcktu"qh"ejcppgnu"kpqv"42/ o g i c jgtv | " ejcppgnu062:" Hwtvjgt."urgekhe"ejcppgnu"ctg"kpvgpfgf"ht"rwdnke"uchgv { "wug"qpn { -"ppg"ejcppgn"kp"rctkewctn." v jg"0eapvtq"ejcppgn.0" y jke j"ku"qwwkf"vjg" o qfkhkgf"KVU"dcpf"rncp.632"ku"kpvgpf"vq"dg"wgfc"ht" o guuc i gu" v jcv"eqqtfkpcvg"ejcppgn"wuic"gf"r tkqtkv | g"rwdnke"uchgv { " o guuc i gu0633" V jg" o qfkhkgf"KVU"dcpf"rncp"

628"69"EHT"È"; 70527" Cwvj qtk | cvkqp"vq"qrgtcvg"Rgtuqpcn" Tcfkq"Ugtxkegu"uvvki"vq"Rctv"; 7."Uwdrctv"N<"FUTEU"Qp/ Dqctf"Wpkvu0"Rctv"; 7"twngu"cr rn { "vq"vjg"Rgtuqpcn" Tcfkq"Ugtxkegu"cpf"rtqxfk"ht" c"xctkv { "qh"rgtuqpcn" eq o o wpkecvkqpu."tcfkq"uki pcnkpi."cpf"dwukpguu"eq o o wpkecvkqpu0" òNkegpugf/d { /twngö" o gcpu"vjcv"cp"cwvj qtk | gf"wgut" ecp"ceeguu"vjg"gpvktg"cxckncdng"urgetw o " y kvj qwv"cp"kpfxkfwcn"uvvki"nkegpug"fqew o gpv"cpf"ku"kpvgcf"cwvj qtk | gf"vq" qrgtcvg"cu"napi"cu"vjg"qrgtcvki"ctg"kp"ceeqtfcpeg" y kvj "vjg"cr rnkcdng"ugtxkeg"twngu0" See 69" W0U0E0"È"529*g"0" V j wu." y jknq"cm"urgetw o "wug"ku"ujctgf" c o qpi"wgutu" y j q" o ggv"vjg"gnk i kdknv { "cpf"vgejpkcn"swcnkhecvkqpu"cpf"pq"ppg"jcu" gzenwuxg"tki j wu"vq"cp { "rtvki"qh"vjg"urgetw o ."v j qug"wgutu"ctg"eqmgevkn { "chhgtfgf"kpvtgtgpeg"rtqvgvki"vis-à-vis" qvjgt"ugtxkegu."dcugf"qp"vjg"cmqecvki"uvvku"wpfgt" y jke j"vjg" { "qrgtcvg0

629"69"EHT"; 205990

62:"69"EHT"ÈÈ"; 20597."; 2059; ."; 7053; ; 0

62:"69"EHT"ÈÈ"; 20599*d+."; 7053850

632"69"EHT"ÈÈ"; 20599*d+."; 7053850

633"69"EHT"ÈÈ"; 20599*d+."; 20599*f+*4+."; 705385."; 70537; *c+*4+0

gnk o kpcvgu"vjg"nq ygt"hqwt."32/ o g i c j g t v | " e j c p p g n u . " k p e n w f k p i " v j g " e w t t g p v " e q p v t q n " e j c p p g n . " c p f " q p g " q h " v j g " r w d n k e " u c h g v { " e j c p p g n u 0 " " V j g u g " e j c p i g u " p g e g u u k v c v g " v j c v " y g " h w t v j g t " r t q r q u g " v q " o q f k h { " v j g " K V U " v g e j p k e c n " t w n g u " v q " g p u w t g " v j c v " K V U " f g n k x g t u " k v u " k p v g p f g f " u c h g v { / t g n c v g f " c r r n k e c v k q p u " v q " v j g " C o g t k e c p " r w d n k e 0 "

3740A Qwt" i qcn"ku"vq" hceknkvcv" c"u o qqvj" vtcupkvpq" cpf" gpuwtg" vjcv" gzkuvkp i" KVU" ugtxkegu" eqpvkpwg" ykvj" o kpk o cn" qt" pp" kpvgttwrvkq0" Ceeqtfkpin. " y g " o w u v " c f f t g u u " v j g " v g e j p k e c n " t w n g u " v j t q w i j " v j g " v t c p u k v k q p " r t q e g u u " y j g t g d { " E / X 4 Z " y k m " t g r n c e g " F U T E " v g e j p q n q i { " k p " v j g " 7 0 ; " I J | " d c p f " c p f " c h v g t " v j c v " v t c p u k v k q p " y j g p " E / X 4 Z " k u " v j g " u q n g " v g e j p q n q i { " k p " v j g " 7 0 ; " I J | " K V U " d c p f 0 " " K p " v j g " u g e v k q p u " d g n q y . " y g " u g g m " e q o o g p v " q p " v j g " v g e j p k e c n " e q p u k f g t c v k q p u " t g n c v g f " v q " v j g " u k o w n v c p g q w u " q r g t c v k q p " q h " F U T E " c p f " E / X 4 Z " k p " v j g " 7 0 ; ; 7 / 7 0 ; 4 7 " I J | " r q t v k q p " q h " v j g " 7 0 ; " I J | " d c p f " c p f . " w n v k o c v g n { . " g z e n w u k x g " q r g t c v k q p " q h " E / X 4 Z " k p " v j c v " d c p f 0 " " k p " r c t v k w n c t . " c u " e q o o g p v g t u " e q p u k f g t " v j g " x c t k q w u " v g e j p k e c n " k u u w g u " c f f t g u u g f " j g t g . " v j g { " u j q w n f " c n u q " h t c o g " v j g k t " e q o o g p v u " c t q w p f " e q p u k f g t c v k q p u " p g e g u u c t { " f w t k p i " c p f " c h v g t " v j g " v t c p u k v k q p 0 " " U r g e k h k e c m { . " h q t " g c e j " v g e j p k e c n " k u u w g . " e q o o g p v g t u " u j q w n f " c n u q " c p u y g t " y j g v j g t " v j g t g " c t g " v g e j p k e c n " k u u w g u " v j c v " r t e n w f g " u k o w n v c p g q w u " F U T E " c p f " E / X 4 Z " q r g t c v k q p u " k p " v j k u " d c p f 0 " " Y j c v " u r g e v t c n " c p f l q t " i g q i t c r j k e " u g r c t c v k q p " t g s w k t g o g p v u . " k h " c p { . " c t g " p g e g u u c t { " v q " r t g x g p v " j c t o h w n " k p v g t h t g p e g " d g v y g g p " v j g " v y q " v { " r g u " q h " q r g t c v k q p u A " " C u " K V U " n k e g p u g u " i p g p t c m { " u r g e k h { " c " f g h k p g f " i g q i t c r j k e " c t g e " c p f " c t g " t g s w k t g f " v q " q r g t c v g " y k v j k p " c u " u o c m " c " o e q o o w p k e c v k q p u " | q p g o " c u " p g e g u u c t { . " e c p " y g " r g t o k v " g z k u v k p i " n k e g p u g g u " v q " o q f k h { " v q " E / X 4 Z " q r g t c v k q p u " r t g o k u g f " u k o r n { " q p " p q " g z e g g f k p i " v j g k t " g z k u v k p i " h q q v r t k p A " " E c p " p g y " n k e g p u g g u " d g " c w v j q t k | g f " v q " w u g " E / X 4 Z " d g h q t g " v j g " h k p c n " v t c p u k v k q p " f e v g . " r t q x k f g f " v j c v " v j g { " c x q k f " g z k u v k p i " i g q i t c r j k e " n k e g p u g f " c t g c u " q t " u k o r n { " c x q k f " g z k u v k p i " t g i k u v g t g f " t q c f u k f g " w p k v u A " " C t g " v j g t g " c p { " c f l c e g p v / e j c p p g n " k u u w g u " v j c v " p g g f " v q " d g " e q p u k f g t g f " d g v y g g p " F U T E " c p f " E / X 4 Z " v q " g p c d n g " p g c t d { " q r g t c v k q p A " " H q t " g z c o r n g . " f q " E / X 4 Z " q r g t c v k q p u " k p " v j g " w r r g t " 5 2 " o g i c j g t v | " p g g f " v q " k p k v c v g " c p { " o k v i c v k q p " o g c u w t g u " v q " c e e q o o q f c v g " F U T E " q r g t c v k q p u " v j c v " e q p v k p w g " k p " v j g " n q y g t " 6 7 " o g i c j g t v | " f w t k p i " v j g " q p g / { g c t " v t c p u k v k q p " r g t k q f A " " Y j c v " c e e q o o q f c v k q p u " e c p " d g " o c f g " v q " r t q v g e v " t q c f u k f g " w p k v " u k v g u " q r g t c v g f " r w t u w c p v " v q " v j g " h q w t " k p e w o d g p v " p c v k q p y k f g " K V U " c w v j q t k | c v k q p u A " " E q o o g p v g t u " u j q w n f " e q p u k f g t " j q y " d g u v " v q " d c n c p e g " E / X 4 Z " d c p f " g p v t { " c p f " e q " g z k u v g p e g " y k v j " F U T E " f w t k p i " v j g " v t c p u k v k q p " r g t k q f . " k p " n k i j v " q h " v j g " v g e j p k e c n " t w n g u " y g " c t g " r t q r q u k p i " j g t g k p " c p f " t g e q o o g p v " k h " v j g t g " c t g " c p { " k p v g t k o " o g c u w t g u " v j c v " o c { " d g " p g g f g f " v q " g p u w t g " u j q v t v g t o " e q o r c v k d k n v { " r t k q t " v q " g z e n w u k x g " E / X 4 Z " w u g l " " Y g " c n u q " u g g m " k p h q t o c v k q p " k p h q t o g f " d { " e w t t g p v " E / X 4 Z " v g u v u " d g k p i " e q p f w e v g f " w p f g t " g z r g t g o g p v c n " n k e g p u g u " c u " v q " j q y " d g u v " v q " g p c d n g " c " u o q q v j " v t c p u k v k q p " h t q o " F U T E " v q " E / X 4 Z 0 "

3750A Bandwidth. Yg" rtrqruq" nki j v" vqwe j" e j c p i g u " v q " o k p k o k | g " f k u t w r v k q p " c p f " u k o r n k h { " v j g " v t c p u k v k q p " h t q o " F U T E / d c u g f " v g e j p q n q i { " v q " E / X 4 Z / d c u g f " v g e j p q n q i { 0 " " V j g " g z k u v k p i " K V U " d c p f " r n c p " e q p v k p u " v j t g g . " 3 2 / o g i c j g t v | " e j c p p g n u " v j c v " y k m " e q o r t k u g " v j g " p g y " K V U " d c p f < " e j c p p g n u " 3 : 2 . " 3 : 4 . " c p f " 3 : 6 " e q t t g u r q p f k p i " v q " 7 0 : ; 7 / 7 0 ; 2 7 . " 7 0 ; 2 7 / 7 0 ; 3 7 " c p f " 7 0 ; 3 7 / 7 0 ; 4 7 " I J | . " t g u r g e v k x n { 0 " " Y g " u g g m " e q o o g p v " q p " y j g v j g t " v j k u " d c p f " r n c p . " u r g e k h { k p i " v j t g g " 3 2 / o g i c j g t v | " e j c p p g n u . " u j q w n f " e q p v k p w g " h q t " E / X 4 Z 0 " " Y g " c n u q " u g g m " e q o o g p v " q p " y j g v j g t " v j g " d c p f " r n c p " u j q w n f " e q p v k p w g " v q " c e e q o o q f c v g " e q o d k p k p i " v y q " e j c p p g n u " v q " r t q x k f g " c " u k p i n g " 4 2 / o g i c j g t v | " e j c p p g n u 0 " " E w t t g p v n { . " e j c p p g n u " 3 : 2 " c p f " 3 : 4 " e c p " d g " e q o d k p g f " k p v q " e j c p p g n " 3 : 3 * 7 0 : ; 7 / 7 0 ; 3 7 " I J | + 0 6 3 4 " " U j q w n f " u w e j " e j c p p g n " e q o d k p k p i " d g " r g t o k v g f " w p f g t " v j g " o q f k h k g f " K V U " d c p f " r n c p A " " C n v g t p c v k x g n { . " u j q w n f " e j c p p g n u " 3 : 4 " c p f " 3 : 6 " d g " r g t o k v g f " v q " e q o d k p g " k p v q " c " u k p i n g " 4 2 / o g i c j g t v | " e j c p p g n " u r c p p k p i " 7 0 ; 2 7 / 7 0 ; 4 7 " I J | A " " U j q w n f " v j g " E q o o k u u k q p " r g t o k v " o c z k o w o " h n g z k d k n v { " d { " c n n q y k p i " g c e j " q h " v j g u g " r q v g p v k c n " e j c p p g n " e q o d k p c v k q p u " v q " d g " w u g f " c u " p g e g u u c t { " v q " c e e q o o q f c v g " x c t k q w u " K V U " c r r n k e c v k q p u " c p f " u g t x k e g u A " " Y j c v " c d q w v " c n n q y k p i " c m n " v j t g g " e j c p p g n u " v q " d g " e q o d k p g f " c p f " w u g f " c u " c " u k p i n g " 5 2 / o g i c j g t v | " e j c p p g n A " " Y j c v " c t g " v j g " e q p u g s w g p e g u " h q t " c p { " q h " v j g u g " e j c p p g n " d c p f y k f v j " e j q k e g u " q p " v j g " f g r n q { o g p v " c p f " c f q r v k q p " q h " E / X 4 Z A " " J q y " y q w n f " c " e q o r n g v g n { " h n g z k d n g " d c p f " r n c p " x g t u w u " c " r t g u e t r v k x g " d c p f " r n c p " c h h g e v " v j g " c d k n v { " q h " E / X 4 Z " v q " o c z k o k | g " g h h k e k g p v " w u g " q h " v j g " d c p f A " " Y g " u g g m " e q o o g p v " q p " g c e j " q h " v j g u g " r q u u k d k n v k g u " c p f " j q y " d g u v " v q " u v t k m g " v j g " t k i j v " d c n c p e g " v q " g p u w t g " g h h k e k g p v " c p f " g h h g e v k x g " d c p f " w u g " e c p " d g " o c z k o k | g f 0 " " H w t v j g t . " e q o o g p v g t u " u j q w n f " r t q x k f g " u w h h k e k g p v " f g v c k n " t g i c t f k p i " v j g k t " r t g h g t t g f " d c p f " r n c p " c p f " j q y " v j c v " o c { " y q t m " y k v j " E / X 4 Z " c p f " c m n " q v j g t " q r g t c v k q p c n " c p f " v g e j p k e c n " t w n g u " v j c v " c t g " c f f t g u u g f " j g t g k p . " u w e j " c u " r q y g t " n k o k v u . " q w v / q h / d c p f " g o k u u k q p " n k o k v u . " c p f " e j c p p g n " w u g " f g u k i p c v k q p u 0 "

3760A The control channel and the public safety priority channel. " E w t t g p v n { " v j g " t w n g u " f g u k i p c v g " e j c p p g n " 3 9 : * 7 0 : ; 7 / 7 0 : ; 7 " I J | + " c u " v j g " e q p v t q n " e j c p p g n " c p f " e j c p p g n " 3 : 6 * 7 0 ; 3 7 / 7 0 ; 4 7 " I J | + " c u " c " r w d n k e "

634*69"EHT*EÈ"; 20599*d+.; 7053850"

uchgv{"ejcppgn0635"" Yg"uggm"eqo o gpv"qp" y jgvjgt"vjgtg"ku"ceq o rgmkpi"tgcupq"vq"jcxg"urgekhe"wug" fgukipcvkqpu"qp"cp{"qt"cmn"qh"vjg"ejcppgnu"wguf"d{"E/X4Z0"" Yqwnf"fgukipcvkpi"cp{"qh"vjg"ejcppgnu"htq"ce" urgekhe"rwtrqug."g0i0."c"eqpvtqn"ejcppgn."jgnr"oczok|g"dcpf"wug"ghhkekge{"A""Fqgu"E/X4Z"pggf"ceeguu"vq" c"eqpvtqn"ejcppgn"kp"cu"uk o knct"hcujkqp"cu" FUTEA""Kh"uq." y jcv"ku"vjg"dguv"cnvgtpcvkxg"htq"ceeq o o qfcvkpi"ce" eqpvtqn"ejcppgn"htq"E/X4ZA""Eqo o gpvgtu"ujqwnf"rtqxfg"urgekhe"tgcupkpi"vq"uwr rqt"vjgk"rtghgtgpe0"" Jqy"yqwnf"cp{"ejcppgn"fgukipcvkq"yqtm"ykvj"vjg"rqvkvkcn"hgzkdkkv{"vq"eq o dkgp"cp{"vyq"qt"cmn"vjtg" ejcppgnuA"

3770A Eqo o gpvgtu"kp"hcxqt"qh"cp{"ejcppgn"fgukipcvkqpu"ujqwnf"kpewf"fgvckn"tgictfkipi"y jkej" fgukipcvkqpu"vjg{"rtghgt"yg"tgvcvkp." y jkej"ejcppgn"u+vjqug"fgukipcvkqpu"ujqwnf"rgtvckp"vq." y j{"vjg{"o cmg" vjqug"rctvkewnc"ejqkegu"cpf"jqy"vjqug"ejqkegu"y knn"oczok|g"wg"qh"vjg"dcpf"cpf"rtq o qvg"uchgv{/tgncvgf" xgjkewnc"ugtkegu0"" Cnvgtpcvkxgn{"y g"eqwnf"ngcxg"vjg"kuuwg"qh"jqy"dguv"vq"wg"cp{"qh"vjg"ejcppgnu"vq"vjg" uvcpfctfu/ugvvpki"rtqeguu"cpf"rgt o kv"vjg"kpfwvwt{"vq"ci"tgg"qp"wg"uvcpfctfu."dvw"pqv"fgukipcvg"vjqug"kp"qwt" twngu0"" Yg"uggm"eqo o gpv"qp"vjg"cfxcpcv"igupf"fkucfxcpcv"iguh"q"fhggtkpi"vq"kpfwvwt{"uvcpfctfk|cvkqp" r tqeguug"kp"nkgw"qh"cfqrkpi"rtguetrkxg"twngu0""Eqo o gpvgtu"kp"hcxqt"qh"wkpi"vjg"uvcpfctfu"rtqeguu" ujqwnf"cuq"eq o o gpv"qp"gzrgev"vk o ghtc o gu"htq"uwej"dqfkg"vq"rtqfweg"tngxcpv"uvcpfctfu"cpf"jqy" vjqug"vk o ghtc o gu"eq o rng o gpv"vjg"vtcpukvq"vk o ghtc o g"yg"rtqrqug"kp"vjku"Hwtvjgt" Pqkqeg0"

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3790A Power and antenna height."Vjg"70;" I J |"dcpf"KVU"urgetw o"ku"ujctgf"cpf"nkegpugf"qp"ce" pqp/gzenwukxg"igqitcrjke"ctgc"dcuku"dcugf"qp"igq/rqnkvecn"dqwpfctkgu0637"" Vq"oczok|g"vjg"wg"ykvj"kp" vjku"ujctgf"urgetw o."vjg"twngu"tgsuktg"vjcv"gej"tgikuvgtg"tqcfukfg"wpkv"fgukipcvg"kvu"kpvgpfgf"ctgc"qh" qrgtcvkqpu"qt"oeq o o wpkecvkqpu|qpg0"cpf"vjcv"uwej"eq o o wpkecvkqpu|qpgu"dg"vjg"u o cmnguv"pgeguuct{"638"" Vjg" twngu"rtqxfg"htq"hwte"eq o o wpkecvkqpu|qpgu"fgukipcvg"oCo"vjgtqwi"j"oFo"htq"eqxgtcig"ctgcu"tcpikpi"htq o" 37" o gvgtu"vq"3222" o gvgtu0"" Eqttgurqpfkpin{"gee"j|qpg"ku"cuuqekcvgf"ykvj"ce"oczok o w o"rgt o kvvgf"qwwrvw" rrygt"tcpikpi"htq o"2"fd o"vq"4:0:"fd o0"" Yjkn"vjku"twng"urgekkgu"qwwrvw"rygt." y jkej"ku"rygt"uwr rnkfg" vq"vjg"cpvgppc."639"cpqvjgt"twng"urgekkgu"vjg"oczok o w o"tcfkcvgf"rygt"rgt o kvvgf"qp"gej"ejcppgn"tcpikpi" igpgtcmn{"htq o"45"fd o"vq"55"fd o."dvw"rgt o kvvki"uvcvg"cpf"nqecni"qxgtp o gpi"gpvkkgu"vq"tcfkcvg"cv"jki jgt"

635"69"EHT"ÈÈ"; 20599*d+.; 7053850"
636"69"EHT"ÈÈ"; 20599*f+.*g+l"
637"69"EHT"È"; 20597*c+l"
638"69"EHT"È"; 20597*e+l"
639"69"EHT"È"; 2090"

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*ejcppgn"3:6+"cv"wr"vq"62"fD o"63:""Vjg"Eq o o kuukqpøu"twngu"cnuq"nk o kv"tqc fukfg"wpkv"cpvgppc"jgki jv"cu"
cpqvjgt"y c{"qh"gpuwtkpi"vjgug"wpkvu"fq"pqv"vtcpu o kv"dg{qp f"vjgk"fguk i pcvgf" | qpg0""Tqc fukfg"wpkv"cpvgppc"
jgki jv"ku"nk o kvgf"vq": " o gvgtu"cv"hwmm"rqygt"cpf" o c{"dg"cu"jki j"cu"37" o gvgtu"y kvj" c"eqttgurqp fki"rqygt"
tgfwewkqp063:""Pqvcdn{"vjgug"twngu"y qtmkpi"vq i gvjgt"tgs wktg"nkegpuggu"kp" o cp{"ecugu"vq" wug" fktgevkqpcn"
cpvgppcu"vq"cwckp"vjg"jki j guv"tc fkcvgf"rqygt"ngxgnu." y jkej"cnuq"ugt xgu"vq" hqewu"vjg"gpgti {"vq"qpn {"vjg"
fguktgf"eqxgtcig"ctgc0"

37:0Á Yg"uggm"eq o o gpv"qp" y jcv"vjg"cr rtrq rtkcvg"rqygt"ngxgnu"wp fgt"vjg" o qfkhkgf"KVU"dcpf"
rncp"ujqwnf"dg0""Cu"cp"kpkvkcn" o cwtg."vq" o czk o k | g"urgetw o "wug" c o qpi"cmn" wugtu." y g" rtrq rtkcvg"vq"tgvcvkp"vjg"
øeq o o wpkcvkqp" | qpg0" fguk i pcvkqpu"ewttgpn {"kp"vjg"twngu"cpf"tgs wktg"tqc fukfg"wpkvu"vq"urgek {"vjgk"
kpvpgf" | qpg0"" Yg"dgngxg"vjku" y kmn"eqpvkpwg"vq"gpuwgt"vjcv"uvcvkqpu"qpn {"eqxgt"vjgk"kpvgpfgf"ctgc"cpf"
rtqxfg"qr rqtvpkvku" hqt"qvjgt"nkegpuggu"vq"kpucnn"tqc fukfg"wpkvu" hqt"qvjgt"pgctd {"ctgc"u"y kvj qww" o wwwcm {"
kpvgtgthkpi"0"" Yg"uggm"eq o o gpv"qp"vjku" rtrq rqucn"cpf" y jcv"ghhgev."kh"cp {"kv" y kmn" jcxg"qp"E/X4Z"0""7 ICC"kp"
c"teggp"hnkpi" o qfkhkgf"kvu"kpkvkcn" rqukvkqp"cpf"pq y"tgs wguvu"vjcv"vjg"Eq o o kuukqp"fgngvg"vjg"
øeq o o wpkcvkqp" | qpg0"twngu0642""Vjwu." y g"cum"eq o o gpvgtu"vq"cf fgtuu" y jgvjgt"vjg"ewttgpn"eq o o wpkcvkqp"
| qpg" fkuvcpeg"nk o kvu"ujqwnf"dg"tgvcvkp"qt"ctg"vjg"tgc uqpu"vq" o qfkh {"qt"gnk o kpcvg"vjg o A""Uj qwnf"vjg {"
rtqxfg" hqt" o qtg"gzvpgf"eqxgtcig"ctgc uA""Qt"u o cmngt"ctgc uA""Qt"ctg"vjg {"ghhgev"vjg"y kvj qww"ejcpigA""
Eq o o gpvgtu"cfxqecvki"ejcpigu"vq"vjg"eq o o wpkcvkqp" | qpgu"ujqwnf"rtqxfg"urgek hke"kpht o cvkqp"qp"
y jcv"nk o kvu"vjg {"hexqt"cpf" y j {"cpf" y jcv"ghhgev"vjg"uejcpigu" y kmn" jcxg"qp"vjg"cdknkv {"hqt"E/X4Z"vq"
fgrnq {"pgy"u {"uvg o u"cpf"eqpvkpwg"qrgtcvki"kpqv"vjg"hwvwtg0"

37;0Á Yg"cnuq"uggm"eq o o gpv"qp"vjg"cr rtrq rtkcvg"qwrwv"cpf"tc fkcvgf"rqygt"ngxgnu"vjcv"ujqwnf"dg"
cuuqekcvgf" y kvj"gej"eq o o wpkcvkqp" | qpg."ejcppgn."cpf" wugt0""Vjg"Eq o o kuukqp."dcugf"qp"7 ICC0u"yckxgt"
rgvkvkq." rtrq rqug"kp"vjg"5.9 GHz NPRM"rqygt"nk o kvu"dcugf"qp"vjg" o quv"tgegpv"5 IRR"uvcpfctf"* y jkej"cv"
vjg"vk o g" y cu" Tngcug"36+0643""U rgek hkecn {"vjg"Eq o o kuukqp" rtrq rqug"vjcv"E/X4Z"fgxkegu"nk o kv"qwrwv"
rqygt"vq"pq" o qtg"vjcp"42" fD o"cpf"nk o kv" GKTR"vq"pq" o qtg"vjcp"55" fD o"644"" Yg"ctg"pq"vcyctg"qh"cp {"
ejcpigu"vq"vjg"rqygt"tgs wktg o gpvu"kp"uwdugs wgpv"kvgtcvkqpu"qh"vjg"5 IRR"uvcpfctf"cpf"vjwu." rtrq rqug"vjcv"
E/X4Z"tqc fukfg"wpkvu"eq o rn {"y kvj"vjcv"nk o kv0"Uj qwnf"vjg"twngu"eqpvkpwg"vq"rgt o kv"jki jgt"tc fkcvgf"rqygt"
hqt"uvcvg"cpf"nqecn" i qxgtp o gpvcn"gpvkkguA""Qt"ujqwnf"vjg"twngu"dg"eqpukvgn" c o qpi"cmn" wugtu"cu" c" y c {"qh"
o czk o k | kp i"urgetw o "wug"cpf"eqpvtqmkpi" rqvpgvkn"kpvgthgtgpeg"dg y ggp" wugtuA""Uj qwnf" y g"nk o kv"tc fkcvgf"
rqygt"vq"45" fD o"cu"urgek hkgf" hqt"uq o g"ejcppgnu."55" fD o"cu"urgek hkgf" hqt"qvjgtu"qt"uq o g"qvjgt"xcnwg."
uwej"cu"rgt o kvkpi"jki jgt"rqygt"qp" c"eqpvtqn"ejcppgnA""Nkmg y kug."ujqwnf" y g"eqpvkpwg"vq"urgek {"dqvj"
qwrwv"rqygt"cpf"tc fkcvgf"rqygt"ngxgnu" hqt"eq o o wpkcvkqp" | qpg"l"ejcppgn"eq o dkpcvkqpuA""Qt" y qwnf"kv"dg"
o qtg"cr rtrq rtkcvg"vq"urgek {"qpn {"c"tc fkcvgf"rqygt"nk o kv."cu"tgs wguvgf"d {"7 ICC"kp"kvu"eq o o gpvuA"645""Dcugf"
qp"j qy" rctvku"gpvkukqp"hwvwtg" wug"qh"vjg"KVU"dcpf."ctg"vjg"tgc fxcpcv i gu"vq"eqpvkpwki"vq"urgek {"dqvj"
nk o kvu"cpf"tgs wktki"egtvcvkp"kpucnncvkqpu"vq" wug" fktgevkqpcn"cpvgppcu"vq"tgcej" o czk o w o"rqygtA"

3820Á Cp"cnvgtpcvkxg" y qwnf"dg"vq"urgek {"rqygt"cu" c"rqygt"fgpvk {"vq"pqt o cnk | g"rqygt" hqt"
y kfgt"dcpf y kfvj"ejcppgnu."kh" y g"eqpvkpwg"vq"rgt o kv"uwej"qrgtcvkqpu0"" Yg"uggm"eq o o gpv"qp" y jgvjgt"vjcv"
y qwnf"ugt xg"E/X4Z"dgwgt"vjcp"vjg"ewttgpn" o gvj qf." y jkej"cuuqekcvgu" c"nq ygt"rqygt"fgpvk {"y kvj" y kfgt"
dcpf y kfvj"ejcppgnu0"" Yg"cnuq"uggm"eq o o gpv"qp" y jgvjgt"vjg"ewttgpn"cpvgppc"jgki jv"nk o kvcvkqpu"ctg"
lwvkhkgf0""Ctg"vjg"tgc uqpu"vq"rgt o kv"jki jgt"cpvgppc"jgki jvuA""Uj qwnf" y g"eqpvkpwg"vq"tgs wktg"vjcv"
nkegpuggu"tgfweg"vjgk"rqygt" hqt"jki jgt"cpvgppc"jgki jvu"cu" c" y c {"qh"eqpvtqmkpi"eqxgtcig"ctgc"cpf"

63:"69"EHT"È";20599*d+0"

63:"69"EHT"È";20599*d+p030"

642"7 ICC"Eq o o gpvu."Crrzl"C."cv"C/90"

643"5.9 GHz NPRM."56"HEE"Tel"cv"3483:."rctc0"5:="see also 7 ICC"Rgvkvkq" hqt" Y ckg"cv"38"cpf"5 IRR."Tngcug"36."
jwrrll y y05i r r0qti l tngcug/360"

644"5.9 GHz NPRM."56"HEE"Tel"cv"3483:."rctc0"5:0"

645"7 ICC"Eq o o gpvu"cv"490"

tgfwepi"vjg"rqvqpkcn"hqt"kpvgthgtpegA""Hwtvjgt."yg"uggm"eq o o gpv"qp"y jgvjgt"yg"ujqwnf"urgek{ " o gcuwtg o gpv"uvcfctfu"hqt"gswnr o gpv"cr rrtqxcn"cpf"eq o rnkcepg"rwtrqugu0""Hqt"gzco rng."ujqwnf"vjg" Eq o o kuukqp"urgek{ "vjcv"vjgug"xcnwg"ujqwnf"dg" o gcuwtg"cu"tqqv" o gcp"uswctg"*k0g0."cxgtcig+"qt"rgcm" xcnwguA""Cpf"ujqwnf"vjg"Eq o o kuukqp"urgek{ "vjg"tguqnwvkqp"dcpfy kfvj"ugvvpkiu"hqt"eq o rnkcepg" o gcuwtg o gpvu"kp"vjg"twnguA⁶⁴⁶"Eq o o gpvgtu"ujqwnf"cfftguu"vjgug"swguvkqpu"kp"eqplwpevkqp"ykvj"vjgkt" eq o o gpvu"tgi ctfkpi"tgvqpkqp"qt" o qfkhkecvkqpu"qh"vjg"gzkuvkpi"eq o o wpkecvkqp" | ppgu"cpf" rrtqxfkfg" vgejpkecn"kpht o cvkqp"tgi ctfkpi"vjgkt"rtghgtpeg"hqt"twngu"cpf"jgy"vjg{"y qwnf"y qtm"vq"gpuwtg" o czk o wo" ceegu"vq"vjg"dcpf0"

3830A Hkpcn{."yg"uggm"eq o o gpv"qp"y jgvjgt"yg"ujqwnf" o qfkh{ "vjg"rqygt"twngu"hqt"E/X4Z"qp/ dqctf"wpkvu0""Vjg"ewttgvp"twngu"urgek{ "c"3" o Y"qwrwv"rqygt" o czk o wo" hqt"rqtcdng"qp/dqctf"wpkvu0⁶⁴⁷"Cu" ykvj"tqcfukfg"wpkvu."vjg"Eq o o kuukqp"rtqrqugf"kp"vjg"5.9 GHz NPRM"nk o kvu"eq o rcvkdng"ykvj"vjg"5 IRR" Tgngcug"36"uvcfctf"hqt"E/X4Z"xgjkewnct"cpf"rqtcdng"*k0g0"qp/dqctf+"wpkvu."y jkej"y qwnf"nk o kv"qwrwv" rrygt"vq"pq" o qtg"vjcp"42"fd o "cpf" GKTR"vq"pq" o qtg"vjcp"45"fd o⁶⁴⁸" Yg" dngkxg"vjgug"rqygt"ngxgnu" eqpvkpwg"vq"dg"cr rrtqtkcvg"hqt"E/X4Z"xgjkewnct"cpf"rqtcdng"fgxkegu"cpf"rtqrqug"vjgug"ngxgnu"jgt0"" 7 ICC."jgygxgt."tgegpvn{"tgsuwvuf"vjcv"vjg"Eq o o kuukqp"gnk o kpcvg"vjg"qwrwv"rqygt"tgsuktg o gpv"cpf" kpetgcug"vjg"QDW" GKTR"nk o kv"vq"55"fd o⁶⁴⁹"Uj qwnf"yg"cfqrv"vjk"jki jgt"rqygt"ngxgn"kpugcfa"" Y jcv" ghggev"y qwnf"uwej"cp"kpetgcug"jcxg"qp"vjg"cdkknv{"qh"E/X4Z"tqcfukfg"wpkvu"vq"eq/gzkuv"ykvj"cpf"rtqvgev" hfgtgn"tcfkqncevkqp"uvcvkqpuA⁶⁴:"kp"eq o o gpvkpi"qp"vjgug"rqygt"ngxgnu."eq o o gpvgtu"ujqwnf"mger"kp" o kpf" vjg"pggf"vq"uk o wncvpgqwn{"gpuwtg"vjcv"uwej"rqtcdng"qp/dqctf"wpkvu"eq o rn{"y kvj"vjg"Eq o o kuukqp0u"TH" tcfkcvkqp"gzrquwtg"nk o kvu0⁶⁴:"

3840A Yg"cnug"uggm"eq o o gpv"qp"jgy"yg"ujqwnf"jcpfng"vjg"uvcfctfu"kuuwg"ykvj"turgev"vq" E/X4Z0""Vjg"5.9 GHz NPRM"uqwi jv"eq o o gpv"qp"kpqtrqtcvkpi"5 IRR" Tgngcug"36"d{"tghgtpeg⁶⁵²"kp"vjg" Eq o o kuukqp0u"twngu0"" Yg"fkf"pqv"tgegkxg"uk i pkhkecpv"eq o o gpv"qp"vjku"kuuwg0""Uwdugswgpv"vq"vjg" PRT O."kp" Lwn{"4242."5 IRR"cppqwpgef"vjg"eq o rnvkqp"qh" Tgngcug"38."653"y jkej"hwvtjgt"gpjcpgef"vjg"7 I"pgv y qtm" ecrcknkvkgu."kpenwfkpi" E/X4Z"vjcv"ygtg"cfftguuf"kp" Tgngcug"370""Kp"nki jv"qh"vjg"gxqnwvkqp"qh"vjg" E/X4Z" uvcfctf"vq"c"7 I"pgv y qtm"vgejpqni{"."yg"uggm"eq o o gpv"qp"y jgvjgt"qwt"twngu"ujqwnf"kpqtrqtcvg"vjg" 5 IRR"uvcfctf"d{"tghgtpeg0""Eq o o gpvgtu"kp"hcxqt"qh"kpqtrqtcvkqp"d{"tghgtpeg"ujqwnf"cnug"rtqxfkfg" fgvcnu"tgi ctfkpi"y jkej"xtgukqp"ujqwnf"dg"kpqtrqtcvgf"o" Tgngcug"36"y jkej"ku"dcugf"qp"NVG"vgejpqni{" " qt" Tgngcug"38"y jkej"kpqtrqtcvgu"7 I"vgejpqni{"0""Eq o o gpvgtu"y jq"cfxqecvg"hqt" Tgngcug"38"ujqwnf" cfftguu"jgy" xgjkewnct"uchgv{"crnkcevkqpu"y knn"dg"fgnkxgtgf"vq"cmn"wuugu"i kxgp"vjcv"7 I"ku"pq"dcem y ctfu" eq o rcvkdng"y kvj" NVG0"" Qpg"cnvtpcvkxg"eqwnf"dg"vq"kpqtrqtcvg" Tgngcug"36"pqy"y kvj" c" rncppgf"vtpukvqp" vq" Tgngcug"38"*qt"vjg"ewttgvp"xtgukqp+"cv"uq o g"fcvg"egtvcvkp"kp"vjg"hwvtg0"" Yg"uggm"eq o o gpv"qp"uwej"cp" qrvkqp0"" Cnvtpcvkxgn{"."ku"vjgtg" c"eq o rgnkpi"cti w o gpv"hqt"pqv"kpqtrqtcvkpi"cp{" E/X4Z"uvcfctf"kpqv"vjg" twnguA"" Yg"uggm"eq o o gpv"qp"gcej"qh"vjgug"qrvkqp0""Eq o o gpvgtu"ujqwnf"cfftguu"jgy"vjg"qrvkqp"vjg{" hcxqt"y qwnf"rtq o qvg"uchgv{"ugtxkegu" c o qpi"cmn"wuugu0"" Hkpcn{."yg"uggm"eq o o gpv"qp"y jgvjgt"yg"ujqwnf" qni{"kpqtrqtcvg"d{"tghgtpeg"urgekhe"curgevu"qh"gvjgt"vjg"5 IRR" Tgngcug"36"qt" Tgngcug"38"uvcfctfa""Kh"

⁶⁴⁶"Vjg"Eq o o kuukqp"cumgf"uk o knct"swguvkqpu"tgi ctfkpi" o gcuwtg o gpv"uvcfctfu"kp"vjg"70;" I J | "PRT O"dww"tgegkxg" nkvnng"eq o o gpv0"" See 5.9 GHz NPRM"56"HEE"Tef"cv"3483:/3;."rtcu0"5;/630"

⁶⁴⁷"69"EHT"È";7053890"

⁶⁴⁸"5.9 GHz NPRM."56"HEE"Tef"cv"3483:."rtcu0"5:0"

⁶⁴⁹"7 ICC"Eq o o gpvu"cv"490"

⁶⁴:"See"oEq o rcvkdnk v{"qh"Hgfgtgn"U{"uvg o u"Qrgtvcpi"kp"vjg"7:72/7;47"O J | "Dcpf"y kvj"Kpvgnki gpv"Vtcpuqrvkqp" U{"uvg o u"cpf" Wpnkegpugf" Pcvkqpcn"Kphqt o cvkqp"Kphtcuvtwevwtg" Fgxkegu0" Pcvkqpcn"Vnggeq o o wpkecvkqpu"cpf" Kphqt o cvkqp" C f o kpkwctvkqp."Ugevqkq"KVU" Fgrnq{" o gpv"cpf"Vgejpkecn"Rctc o gygtu"cv"330"

⁶⁴:"69"EHT"È"3035320"

⁶⁵²"69"EHT"È"3035320"

⁶⁵³"5 IRR" Tgngcug"38."5tf" I gpgtvcvkp"Rctvpgtjkr"Rtlqgev"Vgejpkecn"Urgekhkecvkqp" I tqwr"Ugtxkegu"cpf"U{"uvg o " Curgevu"*4242+0""jwruclly y y05i r rlqti ltngcug/380"

uq."y jkej "ugevkqpuA""Qt"kh"vjg"Eq o o kuukqp"fqgu"pqv"kpqtrqtcvg"d{"tghgtgpeg"cp{"5 IRR"uvcpfctf."ctg"vjgtg" rqtvkqpu"qh"vjg"uvcpfctf"vjcv"pggf"vq"dg" rncegf"kp"qwt"twnguA⁶⁵⁴"

3850A C-V2X out-of-band emission limits. "Dgecwug"vjg"gzkukpi"twngu"htq" FUTE"fq"pqv"urgek{ " qww/qh/dcpf" g o kuukqp"nk o kvu"pgeguuct{"vq"rtqvgev"cfcegpv"dcpf"ugtkegu"htq o " jct o hwn"kpvgthgtgpeg."vjg" Eq o o kuukqp"uqwi j"v"eq o o gpv"kp"vjg"5.9 GHz NPRM"qp"cr rtrqtkcvg"qww/qh/dcpf" g o kuukqp"nk o kvu"htq" E/X4Z"fgxkegu⁶⁵⁵"Tgictfnguu"qh"y jgvjgt"y g"kpqtrqtcvg"vjg"5 IRR"uvcpfctf"qt"pqv."y g"eqpvkpwg"vq" dgnkxg"kv"ku"i qqf"rtcevkq"vq"cfqrv"urgekhe"qww/qh/dcpf" g o kuukqp"nk o kvu"kpq"qwt"twngu⁶⁵⁶" F qkp i "uq"y qwnf" r tqxkf g"gs wkr o gpv" o cpwhcewtgtu"y kvj"engct"i wkgfngkpgu"htq"gs wkr o gpv"cr r tqxcn"eq o r nkcpeg⁶⁵⁷" Hwtvjgt o qtg."kv"y qwnf" r tqxkf g"cfcegpv/ejcppgn"nkegpuggu"cpf"gs wkr o gpv" o cpwhcewtgtu"y kvj"engct" i wkgfngkpgu"tgictfki"vjg"gzrgev"urgetw o "gpxktq o gpv"uq"vjg{"ecp"kpqtrqtcvg"cr rtrqtkcvg"hnvgtu"cpf" o kvk i cvkqp" o gcuwtgu"kpq"vjgt"rtqfwevu"vq"rtqvgev"htq o "jct o hwn"kpvgthgtgpeg"htq o "cfcegpv"ejcppgn" g o kuukqp" "Dgecwug"qwt"rtgxkquw"rtqrqucu"y g"tg"eqpukv"y kvj"vjg"ewttg"5 IRR"uvcpfctf."y g"rtqrqug" vjg"uc o g"qww/qh/dcpf" g o kuukqp"nk o kvu"htq" E/X4Z"jgtg"cu"y g"fkf"kp"vjg"5.9 GHz NPRM"Urgekhkecm{"y g" rtrqruq"vjcv"cm" E/X4Z"gs wkr o gpv"nk o kv"qww/qh/dcpf" g o kuukqp"nk o kvu" o gcuwtg"v"vjg"cpvgppc"kp"rw"klg⁶⁵⁸." eqpfwevf"nk o kvu"vq"

- /4;"fD o l322"m J | "cv"vjg"dcpf"gf i g="
- /57"fD o l322"m J | "O"3" o g i c j g t v | "htq o "vjg"dcpf"gf i g="
- /65"fD o l322"m J | "O"32" o g i c j g t v | "htq o "vjg"dcpf"gf i g="cpf"
- /75"fD o "O"42" o g i c j g t v | "htq o "vjg"dcpf"gf i g⁰"

Y g"cuuq"rtqrqug"vq"nk o kv"qww/qh/dcpf"tcfkcvg" g o kuukqpu"vq"/47"fD o l322"m J | "GKTR"qt"nguu"qwwkf"vjg" dcpf"gf i gu"qh"70: ; 7" I J | "cpf"70;47" I J |⁶⁵⁶

3860A Y g"uggm"eq o o gpv"qp"vjgug"qww/qh/dcpf" g o kuukqp"nk o kvu"cpf"y jgvjgt"vjg{"eqpvkpwg"vq"dg" cr rtrqtkcvg"htq" E/X4Z"gs wkr o gpv⁶⁵⁹"Kp"vjku"eqppgev"y g"pqvg"vjcv"7 I CC"tgegpvn{"tgs wguv"vjcv"y g" cfqrv" o qtg"tgnczgf"QQDG"tgs wktg o gpv⁶⁵⁷"Kv"urgekhecm{"tgs wguv"vjcv" TUWu"nk o kv"qww/qh/dcpf" g o kuukqpu" vq<

- /38"fD o l322"m J | "O"3" o g i c j g t v | "qh"vjg"dcpf"gf i g="
- /35"fD o l O J | "O"7" o g i c j g t v | "qh"vjg"dcpf"gf i g="
- /38"fD o l O J | "O"52" o g i c j g t v | "qh"vjg"dcpf"gf i g="cpf"
- /4:"fD o l O J | "dg{qp"52" o g i c j g t v | "htq o "vjg"dcpf"gf i gu⁰"

U j qwnf"y g"cfqrv"vjgug"cnvgtpcvkxg"QQDG"nk o kvu"kpuyvcfA""Y jcv"y qwnf"vjg"ghhgev"qh"vjgug"tgnczgf"nk o kvu"dg" qp"vjg"cdknk{"vq"fgukip"cpf" o cpwhcewtg" E/X4Z"gs wkr o gpvA""J qy"y qwnf"vjg{"chhgev"gs wkr o gpv"equvA"" Y knn"vjgug"nk o kvu"gpwgtg"eq o r cvdknk{"y kvj"cfcegpv" W/PKK"fgxkegu"kp"dqj"vjg" W/PKK/6"cpf" W/PKK/7" dcpfu."y jkej"ctg"dgnq"y"cpf"cdqxg"vjg" o qfkhkf"KVU"dcpf."tgurgev"gn{"A""Y jcv"ghhgev"y qwnf"vjgug"nk o kvu" jcxg"qp"cfcegpv"dcpf"hkzgf"ugtkegu"kp"vjg"8" I J | "dcpfA""Y g"cuuq"uggm"eq o o gpv"qp"vjg" o gcuwtg o gpv" uvcpfctf"vjcv"u j qwnf"dg"cuuqekcvg"y kvj"gs wkr o gpv"cr r tqxcn"eq o r nkcpeg"htq" xgk{kp i "vjcv" E/X4Z" gs wkr o gpv" o ggvu"y jcvxgt"QQDG"nk o kvu"y g"cfqrv⁰"

3. Other Transition Considerations

3870A Kp"5.9 GHz NPRM."y g"tgs wguv"eq o o gpv"i gpgtcn{"qp"vjg"xctkquw"vtcpukvq/tgncvfg"

⁶⁵⁴" I kxgp"qwt"cfqrvkq"qh" E/X4Z"cu"vjg"uqng"vejpqni {"r g t o kvvgf"kp"vjg"70;" I J | "KVU"dcpf"chvgt"vjg"vtcpukvq." Eqpvkpgvnc"jcu"tckug"eqpegtpu"cdqvw"vjg"tguqmwkq"qh"r qvpgkcn"nkegpki" fkurwgu"tgictfki"vjcv"vejpqni {"0""See, e.g., "Eqpvkpgvnc" Pqx⁰9."4242"Ex Parte""Y g"cuuq"tgs wguv"eq o o gpv"qp"vjku"kuuw⁶⁵⁷"

⁶⁵⁵"5.9 GHz NPRM."56"HEE"Te"cv"3483:."rctc⁰5:0"

⁶⁵⁶"Vjgug"qww/qh/dcpf" g o kuukqp"nk o kvu"ctg"eqpukv"y kvj"vjgug"tgs wguv" d{"7 I CC⁰" See Ngwgt"htq o "Ugcp"V⁰ Eqpyc{"Eqvpugn"vq"7 I CC."vq"Octnggp"J⁰"Fqtvej."Ugetgvt{"HEE." I P" Fqemg" Pq⁰3: /579⁰cv"Cr rz⁰E"*Cr t⁰5." 423; +⁰"

⁶⁵⁷"7 I CC"Eq o o gpvu."Cr rz⁰C."cv"C/; 0"

eqpukfgtcvkqpu"vjcv"yg"ujqwnf"vcmg"kpqv"ceeqwv"kh"yg"cfqrvgf"qwt"rtqrqucn"vq"rtqxfq"qpn{"52"ogicjgtv|"hqt"KVU0"Qht"gzco"rng."yg"cumgf"cdqww"cp{"tg/ejcppgnk|cvkqp"qh"FUETE/dcugf"qrgtcvkqpu"kp"vjg"wr rgt"52"ogicjgtv|"qt"vjg"okitcvkqp"qh"KVU"vq"E/X4Z/dcugf"vgejppnqi{"kp"vjg"urgetw"o"vjcv"tg"o"ckpu"tgugtxgf"hqt"KVU0⁶⁵⁸"Vq"kpqto"o"qwt"eqpukfgtcvkqp"qh"kuuwgu"tgncvki"vq"vtpukvqkpi"qh"KVU"qrgtcvkqpu."yg"cumgf"vjcv"eq"o"gpvgtu"rtqxfq"wr/vq/fcvg"kpqto"cvkqp"q"cevwn"FUETE"qrgtcvkqpu"wpfgt"gzkuvkpi"nkegpugu"*kpenwfkpi"vjg"pw"odgt"qh"tqc"fkf"wpkvu"cpf"qp/dqctf"wpkvu"cpf"vjg"xctkqwu"uwgu"vjcv"jcxg"dgpp"ko"rng"o"gpvgtu⁶⁵⁹"Vjg"Eq"o"kuukqp"tgegkxgf"ugxgtcn"eq"o"gpvu"vjcv"kpqxqxf"uq"o"guvk"o"cvkqp"qh"vjg"rqvgtv"kcnc"equv"eqpukfgtcvkqpu"cuuqekcvgf"ykvj"vjgug"vtpukvqkpi"kuuwgu⁶⁵:"

3880A Y g"vcmg"vjku"qr rqtvpkv {"vq"wr fcvg"vjg"tgeqtf"qp"qwt"kpswkt {"kp"vjg"5.9 GHz band NPRM tgi ctfkpi "vtpukvqkpi"equv"eqpukfgtcvkqpu"kp"nki"jv"qh"vjg"70;" I J |"dcpf"rncp"vjcv"yg"jcxg"cfqrvgf"kp"vjg"Hktuv" Tgrqtv"cpf"Qtfgt"Y g"tgeqipk|g"vjcv."kp"nki"jv"qh"qwt"fggekukqp."eq"o"gpvgtu"yknm"dg"kp"o"wej"dgwgt" rqukvkqp"vq"gxncwcvg"vjg"pgeguuct {"vtpukvqkpi"qh"vjg"t"tguvgevkxg"u"uvgo"u"Y g"pqvg"vjcv"o"cp {"qh"vjg"FUETE" r tqlgevu"cr rgtgf"vq"dg"cuuqekcvgf"ykvj"fg"o"qpvtcvkqp"rtqlgevu"fgukipgf"vq"cf fgtuu"rctvkewnc"vtchhke"cpf" uchgv {"eqpegtu.⁶⁵"cpf"yg"uggm"cp {"wrfcvgu"cdqww"FUETE"fg"o"qpvtcvkqp"rtqlgevu"qt"fgnq {"gpv."cu"ygnm" cu"cp {"E/X4Z"fg"o"qpvtcvkqp"qt"rknq"rtqlgevu."kpenwfkpi"cp {"hwpfkpi"i"tcpvu"vjcv"jcxg"dgpp"rtqxfq"qt" ctg"cpvkekrvcgf⁶⁶²"Vq"y"jcv"gzvgtv"ecp"gzkuvkpi"hwpfkpi"cv"vjg"hgfgtcn"qt"uvcvg"qt"nqecn"ngxgn"tgc"fknc {"dg"wguf" ykvj"tgi ctf"vq"vjg"pgeguuct {"vtpukvqkpi"equv."kpenwfkpi"wg"qh"E/X4Z/dcugf"vgejppnqi {"A"

3890A Y jkng"yg"fkf"pqv"rtqrqg"kp"vjg"5.9 GHz NPRM "vq"rtqxfq"eq"o"rgpucvqkqp"hqt"uwej" tgnqecvqkqp."yg"pqvgvjgnguu"uggm"hwvtvjg"eq"o"gpv."kpenwfkpi"uw"i"i"guvkqpu"qp"y"jkej"rctvkewnc"v"rgu"qh"equvu" ujqwnf"dg"eqpukfgtgf"cu"cr rrtqrkcvg"hqt"rquukdng"eq"o"rgpucvqkqp"*kpenwfkpi"jqy"uwej"equvu"yqwnf"dg" fqew"o"gpvgf"cu"ygnm"cu"vjg"rtqeguu"d {"y"jkej"uwej"eq"o"rgpucvqkqp"oki"jv"dg"fgvgt"okpgf"qt"ko"rng"o"gpvgtu⁶⁶" Hkpcnc {"yg"tsgwgu"eq"o"gpv"qp"cp {"qvjgt"cevkqpu"vjg"Eq"o"kuukqp"ujqwnf"eqpukfgt"vjcv"yqwnf"dg"jgnrhwn" vq"KVU"nkegpuggu"ykvj"tguvge"vq"vjgug"vtpukvqkpi"o"cvgtu⁶⁶"

38:0A Y g"uggm"eq"o"gpv"qp"y"jgvjgt"yg"ujqwnf"nk"o"kv"wg"qh"vjg"70:;7/70;47" I J |"dcpf"vq"pqp/ eq"o"gtekc"ugtxkegu"qt"uchgv {"qh/nkhg"cr rnkcevkqpu⁶⁶³"Qrgp"Vgejppnqi {"Kpukvwwg"cv"Pg"y"C"ogtkec"cpf" Rwdnke"Mpqyngfi"g"rtgxqawun {"hngf"o"rgvkvkqp"hqt"twng"o"cmkpi"cumkpi"vjg"Eq"o"kuukqp"vq"rtqjkdkv" eq"o"gtekc"qrgtcvkqpu"kp"KVU"urgetw"o⁶⁶³"Ujqwnf"yg"o"qfkh {"qwt"twngu"vq"rtqjkdkv"eq"o"gtekc" qrgtcvkqpu"kp"vjku"urgetw"o"qt"qvjgt"y"kvj"nk"o"kv"ugtxkegu"vq"uchgv {"qh/nkhg"cr rnkcevkqpuA"" Jqy"y"qwnf"vjg" Eq"o"kuukqp"fgkpg"o"uchgv {"qh/nkhg"o"cr rnkcevkqpuA"" Jqy"y"qwnf"vjg"Eq"o"kuukqp"fgkpgcvg"dgvy"ggp"uchgv / qh/nkhg"cpf"pqp/uchgv {"qh/nkhg"cr rnkcevkqpuA""kp"uwej"kpucpegu."y"qwnf"vjg"Eq"o"kuukqp"pggf"vq"urgekheccn {" nkuv"rgt"okwgf"cr rnkcevkqpu"kp"kvu"twngu"qt"y"qwnf"o"igpgtcn"rtqjkdkvqpu"uwkhkegA""Qt."eqwnf"uwej"o"rtqjkdkvqkqp" qp"eq"o"gtekc"qrgtcvkqpu"dg"ceeq"o"rnkjgfd {"nk"o"kvkpi"nkegpug"gnki"kdnkvi {"vq"qpn {"egtvc"nkegpuggu."uwej"cu" i"qxgtp"o"gpvcn"gpvkvgu"qt"gpvkvgu"gnki"kdng"hqt"nkegpupki"kp"vjg"Rtkxcvg"Ncpf"Oqdkng"TCfkq"Ugtxkeg"Rwdnke" Uchgv {"Rqqn"wpfgt"rctv";2A⁶⁶⁴"Cv"y"jcv"rqpvi"y"qwnf"o"wg"qt"nkegpupki"tguvtevkqp"uq"cnvgt"vjg"ewttgpi" cwi"jqt|cvkqpu"uq"cu"vq"eqpukvwwg"o"hwpc"o"gpvcn"nkegpug"ejcpi"gvjcv"y"qwnf"gzeggf"vjg"Eq"o"kuukqpu⁶⁶"

⁶⁵⁸ 5.9 GHz NPRM."56"HEE"Tef"cv"3483:."rctc"580"

⁶⁵⁹ 5.9 GHz NPRM."56"HEE"Tef"cv"3483/39."rctc"540"

⁶⁵ "See, e.g., "W0U0" FQV" Tgrn {"cv"57/5;="OpFQV"Eq"o"gpvu"cv"7=" I FQV"Eq"o"gpvu"cv"3/4;"/35="Vgzcu" FQV" Eq"o"gpvu"cv"4="Rgppu {"nxcplc" FQV"Eq"o"gpvu"cv"6="Eqppgevkeww" FQV"Eq"o"gpvu"cv"50"

⁶⁵ "5.9 GHz NPRM."56"HEE"Tef"cv"34833."rctc"3:0"

⁶⁶² "Cu"vjg" W0U0" FQV" jcu"kp fkecvgf. "KVU"qrgtcvkqpu"vq"fcvg"jcxg"tgegkxgf"uwduvcpkcn"tgugcte"j"cpf"fgnq {"o"gpv" kpxguv"o"gpvu."kpenwfkpi"hgfgtcn."uvcvg."cpf"nqecn"kpvguv"o"gpv."qxgt"vjg" {gctu."cpf"yg"uggm"eq"o"gpv"qp"vjg"cxckncdknk {" qh"vjcv"qt"uk"o"knct"hwpcfkpi"hqt"vtpukvqkpi"cuuqekcvgf"ykvj"vjg"pgy"dcpf"rncp"hqt"KVU0"

⁶⁶³ "Rgvkqkqp"hqt"Twng"o"cmkpi"cpf" Tgswgu"hqt"Go"gti"gepe {"Uvc {"qh"Qrgtcvkqk"qh" Fg fkecvgf"Ujqt/Tcpi"g" Eq"o"wpkcevkqpu"Ugtxkeg"kp"vjg"70:72/70;47" I J |"Dcp"70;" I J |"Dcpf+. "TO/33993"hgngf"Lwpg"4:."4238+0"

⁶⁶⁴ "See 69"EHT";2042*cv"y"jkej"urgekkgu"gnki"kdnkvi {"hqt"o"rctv";2"rwdnke"uchgv {"rqqn"nkegpug"cpf"kpenwfgu" i"qxgtp"o"gpvcn"gpvkvgu"cu"ygnm"cu"gpvkvgu"gp"icigf"kp"nkhg"uw"r"rtqv"ugtxkegu."ogfkecn"ugtxkegu."hktg"rtqvgvqkqp."hqtguvt / eqpugtxcvkqp."gve⁶⁶"

cwvj qtkv{"vq"ghgevcvg"wpfgt"ugevkqp"538"qh"vjg"Eq o o wpkecvkqp"Cev."cu"co gpf gfa"" Yg"uggm"eq o o gpv"qp" vjg"ej cmmgp i gu"cpf"dgpgkhvu"cuuqekcvgf"y kvj"cf qrvkpi"tguvtkevqpu"qp"vjg"v{ rgu"qh"KVU"ugtckegu"vjcv"oc{ " qrgtcvg"kp"vjg"70: ; 7/70; 47" I J |"dcpf0"

B. More Flexible Use of Unlicensed Service

38;0A Vjg"Hktuv"Trgrqtv"cpf"Qtfgt"vcmgucp"kpvkcn"uvgr"cv"rtqxfkpi"wpnkegpugf"W/PKK"fgxkeg" ceegu"vq"vjg"70: 72/70: ; 7" I J |"dcpf0"Qwt"fgekukqp"vq"i gpgtcmm{"tguvtkev"W/PKK"fgxkegu"vq"kpffqqt" nqecvkqp665"wpvkn"KVU"qrgtcvkqp"vtcpukvqp"vq"vjg"70: ; 7/70; 47" I J |"dcpf"rtqxfkgu"hgzkdknk{"hqt"wpnkegpugf" fgxkegu"vq"dg ikp"wukpi"vjg"70: 72/70: ; 7" I J |"dcpf."dvv"kp"e"y c{"vjcv"cxqkfu"vjg"rqvpgvkn"ht"jct o hwn" kpvgtgtpgpeg"vq"xxgkewnc"uchgv{/tgcncvgf"cr rncecvkqp0"Qpeg"KVU"qrgtcvkqp"jcxg"hkpkujgf"vtcpukvqkpi"vq" vjg"wr rgt"52"og icjgtv|.jqy gxtg."yg"ecp"rgt okv"qvwfqqt"qrgtcvkqp"cv"hwmm"rqygt."uwdlgev"vq"uwej"qvwfqqt" wug"rtqvgevp i"htq o"jct o hwn"kpvgthgtgpeg"dqjv"eq/ej cppgn"hgfgtcn"cfkqncvkvqp"qrgtcvkqp"*y kej"y knn" tg o ckp"kp"vjg"dcpf+"cpf"cf lcegpv/dcpf"KVU"qrgtcvkqp0"

1. Federal Radiolocation System Protection from Outdoor Unlicensed Operations

3920A Kp"vjg"5.9 GHz NPRM."yg"uqwi jv"eq o o gpv"qp"y jgvjgt"vjgtg"ctg"cp{"okvi cvkqp" o gcuwtgu."uwej"cu"vgej pkecn"qt"qrgtcvkqpcn"eqpfkvkqp"qt"eqpuvtckpvu"vjcv"vjg"Eq o o kuukqp"uj qwnf"eqpukfgt" hqt"W/PKK/6"qrgtcvkqp"vq"rtqvgevhgfgtcn"tcfct"kp"vjg"70; " I J |"dcpf0666"Eq o o ecuv"uwo kvwgf"vjcv"vjg" Eq o o kuukqp"uj qwnf"cf qrv"kvu"rtqrqucn"vq"ko rno ggp"vjg"uc o g"vgej pkecn"twngu"cu"W/PKK/5"y kvj"tguvge"vq" W/PKK/6"fgxkegu"cpf"hgfgtcn"EqF"tcfct"qrgtcvkqp0667"Y KURC"ci tggf"y kvj"vjg"Eq o o kuukqp0"uwi i guvkqp" vjcv"pq"qvjgt"okvi cvkqp"o gcuwtgu"ctg"tgs wktgf"vq"rtqvgevhgfgtcn"EqF"tcfct"qrgtcvkqp"kp"vjg"70; " I J |"dcpf"htq o" W/PKK/6"fgxkegu0668"PEVC"ucvvgf"vjcv"vjg"Eq o o kuukqp"uj qwnf"cf qrv"kvu"rtqrqucn"vq"cwvj qtk|g"W/PKK/6" fgxkegu"y kvj qw"tgs wtkp i"cp{"ur gekcn"htgswgpe{"cxqkfcpeg"vgej pks wgu"qt"uk o knct"eqpuvtckpvu"ukpeg"W/PKK/5" fgxkegu"jcxg"ujctgf"ur gevto"y kvj"eq/ej cppgn"hgfgtcn"kpew o dgpvu"htq{"gctu"y kvj qw"cp{"ur gekcnk|gf" htgswgpe{"cxqkfcpeg"vgej pks wgu."cpf"kp"i gpgtcn"ujctkpi"jcu"dggp"uweeguuhwn0669"

3930A PVKc"tgxky g"vjg"hgfgtcn"tcfct"qrgtcvkqp"cwvj qtk|gf"kp"vjg"70; " I J |"dcpf"cpf" fgvgto kpgf"vjcv"vjg"pw o dgt"qh"tcfct"ukvgn"pggfkpi"rtqvgevkqp"eqwnf"dg"tgfwegf"vq"htq o"7; "vq"52"ukvgn0" PVKc0"cpn{"uku"eqpenwfgu"vjcv"zgenwukqp"|qpgu"ctg"pggfgf"vq"rtqvgevhgfgtcn"tcfkqncvkvqp"u{uvg o u"qpn{" htq o"W/PKK/6"outdoor"rqkv/vq/rqkv"R4R+"cpf"rqkv/vq/ o wnvkrqkv"R4OR+"fgxkegu0"Vjg"zgenwukqp"|qpgu" tgeq o o gpf"gd{"PVKc"ctg"ugv"htvj"kp"Vcdng"4"qh"kvu"Ugrv0": "4242"ngvgt0"Vq"ghqteg"vjg"zgenwukqp"|qpgu." PVKc"tgeq o o gpf"v"vjcv"kpvgthgtgpeg"okvi cvkqp"vgej pks wgu"uwej"cu"igq/hgpeki"dg"g o rno g{gf"vq"rtqvge" hgfgtcn"tcfkqncvkvqp"qrgtcvkqp0"PVKc"g o rj cuk|gu"vjcv"kv"ku"ko rqtvcv"vjcv"qvwfqqt"W/PKK"fgxkegu"ctg"pqv" rgt o kvwgf"vq"qrgtcvg"kpukfg"qh"vjgug"zgenwukqp"|qpgu"vq"gpuwtg"vjcv"hgfgtcn"tcfkqncvkvqp"u{uvg o u"ctg" rtqvgevhgfgtcn"jct o hwn"kpvgthgtgpeg066: "PVKc"cuuq"tgs wguvu"vjcv"vjg"pg y"twngu"o cmg"engct"vjcv"kv"oc{" cwvj qtk|g"cf fkvkqpcn"zgenwukqp"|qpgu"qt"o qfkh{"vjg"gzkvkpi"zgenwukqp"|qpgu"nkuvgf"kp"Vcdng"4"cu"pgeguuct{"

665"Vjg"Hktuv"Trgrqtv"cpf"Qtfgt"cmnyu"qvwfqqt"W/PKK"fgxkeg"qrgtcvkqp"wpfgt"egtvckp"eqpfkvkqp"cpf"y kvj" Eq o o kuukqp/cwvj qtk|gf"ur gekcn"vg o rqtct{"cwvj qtkv{0"

666"69"W0U0E0E"; 24*d+*4+*C+0

667"Eq o o ecuv"Eq o o gpvu"cv"32."p04:0"

668"Y KURC"Eq o o gpvu"cv"90"

669"PEVC"Eq o o gpvu"cv"680"

66:"See"PCvkqpcn"Vnggeq o o wpkecvkqp"cpf"Kphqt o cvkqp"Cf o kpkvutcvkqp"Vgej pkecn"Trgrqtv"VT"42/766"Lessons Learned from the Development and Deployment of 5 GHz Unlicensed National Information Infrastructure (U-NII) Dynamic Frequency Selection (DFS) Devices."jwrucll y y0pvc0f qe0 i qxltgrqtl423 ; lnguuqpu/ngctpgf/fgxgnqr o gpv/cpf/ fgxnq|g o gpv/7/i j |/wpnkegpugf/pcvkqpcn/kphqt o cvkqp"Ugevkqp": "fguetkdgu"kpvgthgtgpeg"vq"cf hgfgtcn"tcfct"htq o"o c"W/PKK" fgxkeg0"

vq"gpuwtg"hgfgtcn"tcfkqncqcvkqp"uvcvkqpu"ctg"rtqvgevgf⁶⁶:"

3940A Y g"ci tgg"vjcv"uq o g" o kvi cvkqp" o gcuwtgu"ctg"pggfgf"vq"gpuwtg"vjcv"qwwfqqt"W/PKK"rqkpv/vq/rqkpv"cpf"rqkpv/vq/ o wnvkrqkpv"qrgtcvkqpu"fq"pqv"ecwug"jct o hwn"kpvgthgtgpeg"vq"hgfgtcn"tcfkqncqcvkqp" u{uvgo u0" Y g"uggm"eq o o gpv"qp" y jgvjgt"gzcnwukqp" | qpgu" y qwnf"dg"vjg"dguv" o gvjqf"htq"gpuwtkpi"uwej" rrtqvgevkqp0" Y g"pqvg"vjcv"uq o g"eq o o gpvgtu"gzrtguu"fkuc i tgg o gpv" y kvj"vjg"vgejpkecn"cpn{uku"rtqxfkf" d{ P VKC. ⁶⁷²"kpenwfkpi" swgukvqkpi" y jgvjgt" P VKC0u"kpvgthgtgpeg"cpn{uku"ku"eqpukuvgpv" y kvj"vjg"cuuwo rvkqpu" kp"vjg"6 GHz Report and Order⁶⁷³" Y g"uggm"eq o o gpv"qp" P VKC0u"vgejpkecn"cpn{uku"cu" y gnn"cu"eq o o gpv" qp"cpf{ "cngtvcvg" o gvjqfu"htq" fvgvt o kpkpi" vjg"rctc o gvgtu"qh"gzcnwukqp" | qpgu0"Eq o o gpvgtu"cfxqcvkpi" qrkpkpu"vjcv"fkhhgt"htq o "P VKC0u"cpn{uku"ujqwnf"rtqxfkf"urgekhe"vgejpkecn"fgvckn"cpf"cpn{uku"tg i ct fkp i" j q y"wpnkegpugf" fgxkegu" y qwnf"rtqxfkf"vjg"tgs wktgf" rrtqvgevkqp"vq"hgfgtcn"tc fct u0" Cngtvcvxgn{ ".ctg"qvjgt" rrtqvgevkqp" o gejcpku o u."uwej"cu"eqqt fkpvcvkqp."hgcukdng" o gvjqfu"qh" rrtqvgevkpi"hgfgtcn"qrgtcvkqpu"kp"egtvckp" ctgcuA"Eq o o gpvgtu"hcxqt kpi" eqqt fkpvcvkqp"qt"qvjgt" o gvjqfu"ujqwnf"fguetkdg"j q y"uwej" o gvjqfu"ecp"dg" k o rng o gpvgt"cpf" o ckpvcvkpf"uwej"vjcv"hgfgtcn"tc fct"qrgtcvqtu"jcxg"cuuwtcpegu"vjcv"vjgkt"kpucmncvkqpu"ctg" cpf"eqpvkpwg"vq"dg" rrtqvgevgf"htq o "jct o hwn"kpvgthgtgpeg"kp"vjg"hwvwtg"cu" o qtg"wpnkegpugf" fgxkegu" o c{ "dg" kpucmngf"qt"gzkuvkpi" fgxkegu" o c{ "dg"tgnqecvgf0

3950A Eq o rnkcpge" y kvj"cp"gzcnwukqp" | qpg" k o rnkgu"uq o g"fg i tgg"qh"nqecvkqp"cyctgpguu."gkvjgt" ykvjpk" c"fgxkeg"qt" d{ "cp"kpucmngt0"kp"etchvkpi"twngu"htq"qwwfqqt"wuq." y g"uggm"vq" rrtqvgevk" o rrtvcpv" FqF" tcfct u"htq o "jct o hwn"kpvgthgtgpeg." rrtqxfkf" hngzkdnk{ "vq" W/PKK" u{uvgo "qrgtcvqtu." o kpkok|g"gs wkr o gpv" eq o rnzkv{ "cpf"ecrkvcnk|g"qp"vjg" i tgevguv"fg i tgg"qh"jct o qpk|cvkqp" y kvj" W/PKK/5" fgxkegu"cu" rquukdng0" Y g" uggm"eq o o gpv"qp"j q y" dguv"vq"cfqrv"twngu"vjcv"ucvkuh{ "gcej"qh"vjgug" i qcnu"vq"vjg" i tgevguv"gzvgpv" rquukdng0

3960A Vjg"Eq o o kuukqp"jcu"tgs wktgf"qvjgt"wpnkegpugf" fgxkegu"vq"kpqtrqtvcg" i gq i tcrjke" cyctgpguu" *k0g0."c" i gqncqcvkqp"ecrcdknk{ "+"cpf"wuq" c" fvcdcug"vq"cxqkf"ctgcu" y jgtg"vjg" rrvpvcn"htq"ecwukpi" jct o hwn"kpvgthgtgpeg" y qwnf"gzku0" Hqt"gzc o rng." y jkv"urceg" fgxkegu"ctg"tgs wktgf"vq"kpqtrqtvcg" c" i gqncqcvkqp"ecrcdknk{ "cpf"ejgem" c" y jkv"urceg" fvcdcug"htq" c"nkuv"qh"cxckncdng"ejcppgnu" dghqg"vjg" i "ecp" qrgtcvg⁶⁷⁴"cpf"8" I J | "uvcpfctf"rq ygt" W/PKK" fgxkegu"ctg"uk o knctn{ "tgs wktgf"vq"kpqtrqtvcg" c" i gqncqcvkqp" ecrcdknk{ "cpf"eqpuwv"cp"cwvq o cvgf"htgswpe{ "eqqt fkpvcvkqp" fvcdcug" rtkat"vq"qrgtcvkpi"vq"cxqkf"ecwukpi" jct o hwn"kpvgthgtgpeg"vq"hkzgf"ugtxkeg"kpew o dgpv⁶⁷⁵"Uj qwnf"vjg"Eq o o kuukqp"tgs wktg" c"uk o knct"u{uvgo " jgtgA" Vjg"cfxcpcv"ig"qh" wukpi" i gqncqcvkqp"cpf" c" fvcdcug"ku"vjcv"uwej"u{uvgo u"jcxg"cntgcf{ "dggp" uweeguuhwn{ "fgrnq{gf"cpf" y g" dngkxg" rrtqvgevkpi" qpn{ "52"hgfgtcn"tcfkqncqcvkqp"ukvgu" y qwnf"dg" c" tgnvcxgn{ " uk o rng"wpf gtvcmkpi"wpf gtv"vjku"tg i k o g0" Dww"kpqtrqtvcvkpi" i gqncqcvkqp"ecrcdknk{ " fagu"kpctgcug"vjg" eq o rnzkv{ "qh" c" fgxkeg"cpf" cff"qxgtjgc f" *dqj" jct f y ctg"cpf"uqh v y ctg+" pgeguuct{ "htq"uwej" c"u{uvgo "vq" y qtm0"kp" c f fvkqp."tgs wktg" W/PKK/6" fgxkegu"vq"qrgtcvg"kp"vjku" o cpgt" y qwnf"gpvcn" o cpf{ "fkhhgtgpegu" htq o "W/PKK/5" fgxkeg"qrgtcvkqp"cpf"eqwnf"nk o kv"vjgkt" wughwnpguu"kp" rrtqxfkfpi" vjg"cdnk{ "vq"wuq" c" 382/ o g i c j g t v | " y k f g " e j c p p g n " v j c v " u r c p u " v j g " W / P K K / 5 " c p f " W / P K K / 6 " d c p f u 0 " Q p " v j g " q v j g t " j c p f . " y g " g z r g e v " o c p f { " f g x k e g u " v q " q r g t c v g " v j t q w i j q w v " c n n " v j g " W / P K K " d c p f u " k p e n w f k p i " v j g " 8 " I J | " W / P K K / 7 " c p f " W / P K K / 9 " d c p f u ⁶⁷⁶ " y j k e j " y q w n f " c n t g c f { " t g s w k t g " v j k u " e c r c d k n k { 0 " k p " v j k u " e c u g . " j q y " f k h h k e w n v " y q w n f " k v " d g " v q " u k o k n c t n { " c f f " v j g " i g q n c q c v k q p " c p f " f v c d c u g " e c r c d k n k { " v q " W / P K K / 6 " f g x k e g u A " Y q w n f " v j g t g " d g " c p { " k p e t g o g p v c n " e q u " h q t " k p e q t r q t c v k p i " u w e j " c " t g s w k t g o g p v A " J q y " y q w n f " u w e j " c " t g s w k t g o g p v " c h h g e v " v j g " w v k n v { " q h " W / P K K / 6 " f g x k e g u " c p f " v j g k t " c d k n k { " v q " y q t m " u g c o n g u u n { " y k v " W / P K K / 5 " f g x k e g u " v q " f g n k x g t " c r r n k e c v k q p u " x q g t " c " 382 / o g i c j g t v | " e j c p p g n A " K h " y g " y g t g " v q " c f q r v " u w e j " c " t g s w k t g o g p v . " y g " c p v k e k r c v g " v j g " t w n g u " d g k p i " e q p u k u v g p v " y k v " v j g " 8 " I J | "

⁶⁶:"See PVKC"Ugrv0" : "4242"Ngvvt"cv"5/60"

⁶⁷²"See NTIA Technical Report 21-551"cv"48/490"

⁶⁷³"See Hcegdqqm" Pqx0"8."4242"Ex Parte cv"4/50"

⁶⁷⁴"69"EHT"È"3709330"

⁶⁷⁵"69"EHT"È"370629*m+0"

⁶⁷⁶"Hqt"gzc o rng." y g"gzrgev"vjcv"pgy" fgxkegu" y qwnf" jcxg"ecrcdknk{ "vq"qrgtcvg"cetqu" o wnvkrng" dcpfu" kpenwfkpi" vjg" 70372/70472" W/PKK/3" dcpf."vjg"70947/70: 72" W/PKK/5" dcpf."vjg"70: 72/70: ; 7" I J | "W/PKK/6" dcpf."vjg"70; 47/80647" W/PKK/7" dcpf"cpf"vjg"80747/80: 97" W/PKK/9" dcpf0

cwvq o cvke"htgswgpe{"eqqt fkpvcvkqp"twngu."gzegev"vjcv"vjg"gzenuwukqp" | qpgu"ctg"cntgcf {"mpqyp"cpf"fq"pqv" pggf"vq"dg"ecnewncvfg" d {"vjg"cwvq o cvgf"htgswgpe {"eqqt fkpvcvkqp"u {uvg o 0"" Y g"uggm"eq o o gpv"qp"wukp i"vjg"8" I J | "htc o g y qtm"htq"qwwfqqt"W/PKK/6" fgxkegu0"

3970A Dgecwug"vjg"W/PKK/6"dcpf"gzenuwukqp" | qpgu"ctg"mpqyp"kp"cfxcpeg."ctg"vjg"tgu"ok o rngt" o gvj qfu"htq"gpuwtkp i"vjcv"qwwfqqt"W/PKK/6" fgxkegu"tgu"rgev"vjg"pggf"vq"cxqkf"qrgtcvkp i"pgct"vjg"hgfgtcn" tcfkqncqcvkqp"u {uvg o uA""Hqt"gzc o rng."eqwnf" y g"uk o rn {"tgn {"qp" r tqhguukqpcn"kpucnncvkqp"vq"gpuwtg"vjcv" qwwfqqt"W/PKK/6" fgxkegu"fq"pqv"qrgtcvq"kp"vjg"qug"ctgcuA""Wpfgt" c" r tqhguukqpcn"kpucnncvkqp"tgi k o g." y jcv" twngu"cpf"tgswwktg o gpvu" y qwnf"vjg"Eq o o kuukqp"pggf"vq"rww"kp" rnceg"vq"gpuwtg"vjcv"W/PKK/6" fgxkegu"fq"pqv" qrgtcvq"kp"cp {"qh"vjg"gzenuwukqp" | qpguA""Uk o knctn {"."dgecwug"vjg"ug"gzenuwukqp" | qpgu"ctg"mpqyp."eqwnf" fgxkegu" uk o rn {"jcxg" c" i gqncqcvkqp"ecrcdknk {"cpf"gvjgt"dg" r tgnqcf"fgf" y kvj"vjg"gzenuwukqp" | qpg"eqqt fkpvcvq"cpflqt" fq y pncqf"vjg"qug"eqqt fkpvcvq"qpeg"qt"qp" c" rgtkf"ke"dcuku."uwej"cu"gxgt {"vk o g"vjg" fgxkeg"ku"vwtpgf"qp"qt"cv" uq o g"ugv"kpvtxcn" *g0 i0."qpeg" c" y ggm"qt"qpeg" c" o qpjv+A"" Y g"uggm"eq o o gpv"qp" y jgvjgt"vjku"ku" c" xkcdng" cncvtpcvkxg"vq"vjg"qvjgt"uw i i guvgf" o gvj qfu""Eq o o gpvgtu"kp"hcxt"qh"uwej" c" o kvk i cvkqp" o gvj qf"ujqwnf" r tqxkf"fgvckngf"eq o o gpv"tg i ctfkpi" j qy"vjg"kpvtgpcn" fgxkeg"fcvcdug" y qwnf" y qtm."vjg"pgeguuct {"wr fcvq" htgswgpe {"."cpf"vjg"equu"kpqxngf"kp"fgxgnqrkpi"gswwr o gpv"" Y g"cuq"uggm"eq o o gpv"qp"qvjgt"cnvtpcvkxgu" vjcv"ce jkxg"vjg"uc o g" i qcn="vjcv"ku." o gvj qfu"vjcv"ce jkxg"vjg"tgswwktg" r tqvgevkqp"cpf"ctg"gcu {"cpf"equv" ghggevckxg"vq" k o rng o gpv"cpf" o czk o k | g"vwnkv {"qh"vjg"W/PKK/6"dcpf0"

2. Outdoor Unlicensed Operations Transmitted Power and Emission Limits

3980A Transmitter Power0""kp"vjg"5.9 GHz NPRM."vjg"Eq o o kuukqp"rtqrqgf"vjcv"W/PKK/6" fgxkegu"dg"rgt o kwvgf"vq"qrgtcvq"cv"vjg"uc o g" r qy gt"ngxgnu" *g0 i0."tcfkcvqf" r qy gt." r qy gt"urgetcn" fgpukv {"+cu" W/PKK/5" fgxkegu"cpf"uqwi jv"eq o o gpv"qp" y jgvjgt"kv"ujqwnf"cfqrv"fkhhgtgpv" r qy gt"ngxgnu0677"

3990A Vjg"Yk/Hk"Cmncpeg"ci tggv"vjcv"vjg"Eq o o kuukqp"ujqwnf"cfqrv"kvu" r tqrqcn"vq"cr rn {"vjg" uc o g" r qy gt"ngxgnu" *tcfkcvqf" r qy gt."RUF+"vq"W/PKK/6" fgxkegu"cu"cr rn {"vq"W/PKK/5" fgxkegu"dgecwug"vjg"t" ghhece {"jcu"dggp" r tqxgp"d {" {gctu"qh"cr rncecvkqp"kp" r tcevkq0"" Y k/Hk" Cmncpeg"eqpvqfu"vjcv"vq"tgeq i pk | g" vjg"hwnd"dgpgkhv"qh"vjg"W/PKK/6"urgetw o ."kpenwfkpi"gzrcpf"qrgtcvkqpu"qh"gzkuvkpi"W/PKK" fgxkegu."vjg" vgejpkcni"twngu" i qxgtkpi"vjg"dcpf" o wu"dg"cnk i pgf" y kvj"vjg"twngu"eqxgtkpi"vjg"W/PKK/5"dcpf="rgt o kvkpi" W/PKK/6" fgxkegu"vq"qrgtcvq"cv"vjg"uc o g" r qy gt"ngxgnu"cu"W/PKK/6" fgxkegu" y knm" o czk o k | g"vjg"vwnkv {"qh"dqj" dcpfu0"kv"uvcvq"vjcv"kh" c" fkhhtgtpv" r qy gt"ngxgn"ku"cfqrv"vq"htq"vjg"W/PKK/6"dcpf."W/PKK" fgxkegu" y qwnf"pqv" dg"cdng"vq"qrgtcvq"cetquu"dqj"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu."gnk o kpcvkpi"vjg" r qvqpcn"vug"qh" y kfgt" e jcppgnu."gswwr o gpv"eq o o qpckv {"."tgfwegf"equv"cpf"eq o o rngzvk {"."uwr gktq" r gthqt o cpeg."cpf"qvjgt"dgpgkhv" vjcv" o c {"dg"tgcnk | g" d {"vjg"Eq o o kuukqp0" r tqrqcn0678"" Y KURC"uvcvq"vjg"Eq o o kuukqp0" r tqrqcn"vq"cmnqy" W/PKK/6" fgxkegu"vq"qrgtcvq"cv"vjg"uc o g" r qy gt"ngxgn"cu"W/PKK/5" fgxkegu"ku" c"ugpukdng"cpf" ghhekgpv" cr r tqej"cpf"eqpukvqpv" y kvj" Y KURC0"tgeq o o gpfcvkqpu"kp"GV" Fqemg" Pq0"35/6; "kp"vjcv"kv" y qwnf"rgt o kv" jki jgt/GKTR"hkzgf" yktgnguu"qrgtcvkqpu"vjcv" y knm"gpdcng"vug"qh"vjg"70;" I J | "dcpf"htq"twcni"dtqcf dcpf" fgrnq {" o gpv."kpenwfkpi"dqj"qwwfqqt"rqp v/vq/rqkv"qrgtcvkqpu"cpf" r qp v/vq/ o wnvkrqkv"qrgtcvkqpu0679"" Eq o ecv"cuugtvu"vjcv"jct o qpklpi"vjg"W/PKK/6"vgejpkcni"twngu" y kvj"vjg"qug"qh"vjg"W/PKK/5"dcpf."rctkwactn {" vjg"Eq o o kuukqp0" r tqrqcn"vq"cmnqy" W/PKK/6" fgxkegu"vq"qrgtcvq"cv"vjg"uc o g" r qy gt"ngxgnu"cu"W/PKK/5" fgxkegu." y qwnf"uwduvcvkcnn {"k o r tqxg"kvu"cdnk {"vq"dtkpi"vjg"dcpf"kp vq"vug"htq"eqpuw o gtu"swkemm {"cpf"vq"

677" See 5.9 GHz NPRM."56"HEE" Tef"cv"34844/45." rctc0"750" Vjg" o czk o w o "eqpfwevgf"qwwrvw" r qy gt"qxgt"vjg" htgswgpe {"dcpf"qh"qrgtcvkqpu"ujcnn"pqv"gzeggf"3" Y 0""Kp"cf fkvkqp."vjg" o czk o w o " r qy gt"urgetcn" fgpukv {"ujcnn"pqv" gzeggf"52" fD o "kp"cp {"722/m J | "dcpf0"kh"vtcpu o kvkpi"cpvgppcu"qh" fktgevkqpcn" i ckp" i tgcvtg"vjcp"8" fDk"ctg"vugf."dqj" vjg" o czk o w o "eqpfwevgf"qwwrvw" r qy gt"cpf"vjg" o czk o w o " r qy gt"urgetcn" fgpukv {"ujcnn"dg"tgfwegf" d {"vjg" c o qwpv"kp" fD"vjcv"vjg" fktgevkqpcn" i ckp"qh"vjg"cpvgppc"gzeggf"8" fDk0" J qy gxgt."hkzgf" r qp v/vq/rqkv" W/PKK" fgxkegu"qrgtcvkpi"kp" vjku"dcpf" o c {"g o r nq {"vtcpu o kvkpi"cpvgppcu" y kvj" fktgevkqpcn" i ckp" i tgcvtg"vjcp"8" fDk" y kvj qww"cp {"eqttgurqp fkp i" tgfwekqp"kp"vtcpu o kvgt"eqpfwevgf" r qy gt0"69"EHT"E"370629* c+5+0"

678" Yk/Hk" Cmncpeg"Eq o o gpvu"cv"4/5."7/80"

679" YKURC"Eq o o gpvu"cv"80"" See also"Ngwgt"htq o "Encwfg" Ckmgp."Rtgukf gpv"cpf"EGQ." Y KURC."vq" Octngp" J 0" Fqtvej." Ugetgvct {"HEE."GV" Fqemg" Pq0"35/6; ."cv"3" *fcvqf"Qev0"48."423: +0"

rww"kv"vq"kvu"dguv"wug067:" PEVC"uvcvgu"vjcv"crn{kpi"vjg"W/PKK/5"rqygt"nko"kvu"vq"W/PKK/6"yknn"gpcedng"
pgvyqtm"qrgtcvqtu"cpf"fgxkeg"o"cpwhcevtwtu"vq"dwknf"qp"vjg"uweeegu"qh"W/PKK/5067:" Oketquqhv"uvcvgu"vjcv"
gzvvpfkipi"vjg"W/PKK/5"vgejpkecn"twngu"vq"vjg"W/PKK/6"dcpf."gzegr"v"htq"vjg"gzkuvkpi"QQDG"nko"kvu."yknn"
gpcedng"vjg"rwdnke"vq"tgcnk|g"vjg"oczko"wo"dgpgkhku"htqo"vjg"W/PKK/6"dcpf."kpenwfkipi"ceegngtcvkipi"vjg"
vk"ognkpg"htq"kpkykcn"fgnrq{"ogpvu"wukpi"vjku"67"ogicjgtv|"qh"urgetvw"o="guvcdnkujkpi"vjg"ucog"rqygt"ngxgnu"
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39:0A Qp"vjg"qvjgt"jcpf."7 ICC"cpf"Swcneq"o"ugrctcvgn{"tgeq"o"ogpf"vjcv"vjg"Eq"o"okuukqp"
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Pcvkqpcn"Jkijyc{"Vtcpu"rtvcvqpu"Uchgv{"Cf"okp"kvutcvkqpu"PJVUCou"v"gvkpi."y"jkej"ujqygf"xct{kpi"
ngxgnu"qh"jct"ohwn"kpvgthgtgpeg."wp"fgtguvk"ocvgu"vjg"rqvgpvkcn"htq"jct"ohwn"kpvgthgtgpeg"htq"o"wpnkegpugf"
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fgxkegu"eqwnf"qrgtcvq"cv"rqygt"ngxgnu"qh"84"fd"o"GKTR"vukpi"7 I"cpvppcu"vjcv"jcxg"54"fd"qh"i"ckp0685"
Swcneq"o"cnuq"gzrtguugu"eqpegtp"vjcv"qww"fqqt"r"qkp"v"vq"r"qkp"v"wpnkegpugf"qrgtcvqpu"y"kvj"jki"j"GKTR"
uki"pcnu"kp"vjg"W/PKK/6"dcpf"eqwnf"jcxg"ugtkqu"r"ghqt"o"cpvg"ko"rcev"vq"kpucvngf"UWU"cpf"etgcvg"E/X4Z"
fgcf"l"qpgu"y"jgp"xgjkengu"rcuu"pgctd{"tgi"ctf"nguu"qh"vjg"QQDG"ngxgn0686"Kpvgnk"igpv"Vtcpu"rtvcvqpu"
Uqekgv{"qh"C"ogtkec"*KVUC"cnuq"gzrtguugu"eqpegtp"vjcv"qww"fqqt"wpnkegpugf"r"qkp"v"vq"r"qkp"v"W/PKK/6"dcpf"
qrgtcvqpu"htq"o"cv"vq"ygt"qt"tqhqvr"cnqpi"ukfg"c"tqcf"y"y{"eqwnf"ecwug"jct"ohwn"kpvgthgtgpeg"vq"KVU"
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39:0A Hqt"qww"fqqt"qrgtcvqpu"qh"W/PKK/6"ceegu"r"qkp"v"fgxkeg"chvgt"KVU"qrgtcvqpu"o"qxg"qww"qh"
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dcpf"y"kvf"ju0"Y"jgp"eq"okp"gf"y"kvj"v"vjg"W/PKK/5"dcpf"urgetvw"o."qww"fqqt"ceegu"r"qkp"v"GKTR"ecp"uecng"vq"58"
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vjg"W/PKK/6"dcpf"cpf"oczko"ki"kp"i"vjg"vwnkv{"qh"dqv|"dcpfu"y"jkn"rtqvgevkpi"kpew"ogpv"qrgtcvqpu"kp"vjg"
W/PKK/6"dcpf"htq"o"jct"ohwn"kpvgthgtgpeg0" Cnnq"y"kp"i"qww"fqqt"W/PKK/6"fgxkegu"vq"qrgtcvq"cv"vjg"hwnn"rqygt"
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eq"o"qpcnkv{"tgfweg"equu"cpf"eq"o"rngzkv{"cpf"hecnkvcvg"dtqcf"dcpf"fgnrq{"ogpvu"kp"twctn"ctgu."kpenwfkipi"
dqvj"qww"fqqt"r"qkp"v"vq"r"qkp"v"qrgtcvqpu"cpf"r"qkp"v"vq"o"vwnk"r"qkp"v"qrgtcvqpu0" J"qygxgt."vq"cxqkf"vjg"pggf"
htq"o"wej"nctigt"wpnkegpugf"gzennwukqp"l"qpgu"y"jgtg"wpnkegpugf"qrgtcvqpu"y"qwnf"dg"rtqjkdkgf"kp"qtfgt"vq"
rtqvgev"hgfgtcn"tcfct"qrgtcvqpu"htq"o"jct"ohwn"kpvgthgtgpeg."y"g"rtqrqug"pqv"vq"cfqr"v"vjg"W/PKK/5"r"qkp"v"vq"r"
qkp"v"rqygt"nko"kvu"kp"vjg"W/PKK/6"twngu0"Y"gcnuq"rtqrqug"vjcv"enkpv"fgxkegu"dg"rgt"okvvgf"vq"qrgtcvq"kp"vjg"
70:72/70:;7" I J|"dcpf"cv"rqygt"ngxgnu"vjcv"ctg"8"fd"nq"ygt"vjcp"vjqug"rgt"okvvgf"htq"qww"fqqt"ceegu"r"qkp"v"
fgxkegu0"Y"g"uggm"eq"o"ogpv"qp"vjgug"rtqrqucnu0"

3:20A OOBELimits0"Kp"vjg"5.9 GHz NPRM."vjg"Eq"o"okuukqp"rtqrqug"vjcv"W/PKK/6"fgxkegu."qt"

67:Eq"o"ecuv"Eq"o"ogpvu"cv"320"

67:"PEVC"Eq"o"ogpvu"cv"67/680"

682"Oketquqhv"Eq"o"ogpvu"cv"6."90"

683"7 ICC"Eq"o"ogpvu"cv"66."p034;="Swcneq"o"Eq"o"ogpvu"cv"450"

684"Ect"4"Ect"Eq"o"ogpvu"cv"3:="WU"Vgejpkecn"Cfxkuqt{"I"tqwr"Eq"o"ogpvu"cv"330"

685"CC"Eq"o"ogpvu"cv"48."p0490"

686"Swcneq"o"Eq"o"ogpvu"cv"3;/420"

687"KVU"C"ogtkec"Trgn{"cv"45."p07;0"

fgxkegu"vjcv"qrgtcvg"cetquu"cu"uping"ejcppgn"vjcv"urcpu"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu." o ggv"vjg"uc o g" QQDG"nk o kvu"cu"W/PKK/5"fgxkegu"cv"vjg"wr rgt"cpf"nq ygt"gf i gu"qh"vj qug"dcpfu"y kvj"pq"nk o kv"cv"vjg"W/PKK/ 51W/PKK/6"dcpf"gf i g⁶⁸⁸"Rtqrqpgpvu"qh"KVU"uwi i guv"vjcv"W/PKK/6"fgxkegu."qt"fgxkegu"vjcv"qrgtcvg"cetquu"cu" ukp ing"ejcppgn"vjcv"urcpu"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu." o ggv"QQDG"nk o kvu"vjcv"ctg" o wej" o qtg" tguvtkevkg"vjcp"vjg"gzkukpi"W/PKK/5"QQDG"nk o kvu"vq"rtqvev"cf lcegpv/dcpf"KVU"qrgtcvkqpu⁰"Wpfgt" I O⁰u" uwi i guvkqp"*/49"fd o l o J |"cv"qt"cdq xg"70; 27" I J |+."W/PKK/6"fgxkegu⁰"QQDG"y qwnf"pggf"vq"dg"37"fd" nq ygt"vjcp"vjg"QQDG"nk o kv"*/34"fd o l o J |+"hqt"cu"W/PKK/5"fgxkeg"cv"vjg"uc o g"htgswgpe{"=wpfgt"vjg" uwi i guvkqp"htq o" Ect"4" Ect."KGGG"382; " Y qtmkpi" I tqwr."WU"Vgejpkecn"Cfxkuqt{" I tqwr."cpf"Xqnmuy ci gp" */62"fd o l o J |"cv"32" o g i c jgtv |"cdq xg"vjg"dcpf"gf i g+."W/PKK/6"fgxkegu⁰"QQDG"y qwnf"pggf"vq"dg" cr r t q z k o c v g n { " 4 : " f D n q y g t " v j c p " v j g " Q Q D G " n k o k v " * / 3 4 " f D o l o J | + " h q t " c " W / P K K / 5 " f g x k e g " c v " v j g " u c o g " h t g s w g p e { ⁶⁸⁹

3: 30^A Rtqrqpgpvu"qh"wpnkegpugf"qrgtcvkqpu"uwi i guv" o qtg"tgnczgf"QQDG"nk o kvu"htq"qwwfqqt" wpnkegpugf"qrgtcvkqpu"kp"vjg"W/PKK/6"dcpf"vjcp"rtqrqugf"kp"vjg"5.9 GHz NPRM⁶⁸:" Y KURC"uwd o kvu"vjcv" qwwfqqt"W/PKK/6"qrgtcvkqpu⁰"QQDG"dg"nk o kv"gf"vq"/7"fd o l o J |"cv"qt"cdq xg"70: ; 7" I J |⁶⁸:"Dtqcf eq o ." EcdngNcd u."Hcegdqmq."cpf"PEVC"vq i gv jgt"uwi i guv"vjcv"QQDG"htq"qwwfqqt"W/PKK/6"qrgtcvkqpu"dg"nk o kv"gf" vq"9"fd o l o J |"cv"70: ; 7" I J |."fgetgcukpi"nkp gctn{"vq"/; "fd o l o J |"cv"70; 47" I J |." o gcuwtgf"wukpi"vjg"tqq" o gcp"uswctg"TOU+" o gv j q f " * c i t g g f " v q " d { " 7 I C C " h q t " v j g " v q r " q h " v j g " 7 0 ; " I J | " d c p f + . " v q " c f f t g u u " e q p e g t p u " t c k u g " d { " K V U " u v c m g j q n f g t u l ⁶⁹² " V j g { " e n c k o " v j c v / ; " f D o l o J " c v " 7 0 ; 4 7 " I J | " y k n n " r t q x k f g " o q t g " v j c p " c f g s w c v g " r t q v e v k p " h q t " c f l c e g p v " K V U " q r g t c v k q p u " c p f " k u " e q p u k u v g p v " y k v j " v j g " t q n n / q h h " q h " v j g " K G G G " : 2 4 0 3 3 c e " c p f " : 2 4 0 3 3 c z " g o k u u k q p " o c u m u ⁰ " V j g { " c n u q " c u u g t v " v j c v " v j k u " n k o k v " y q w n f " c m n q " y " 7 0 ; " I J | / e c r c d n g " Y k / H k " f g x k e g u " v q " f g n k x g t " u w h h k e g p v " r q y g t " c p f " v j t q w i j r w v " v q " e q p u w o g t u " v q " g p c d n g " v j g " y k f g " t e p i g " q h " w u g " e c u g u o k p e n w f k p i " g p j c p e g f " k p / j q o g " Y k / H k " u r g g f u " c p f " e q x g t c i g " v q " u w r r q t v " t g o q v g " n g c t p k p i . " v g n g o g f k e k p g . " c p f " q v j g t " j k i j / d c p f " y k f v j " c r r n k e c v k q p u . " c u " y g n n " c u " o q t g " c e e g u u k d n g " n c t i g / u e c n g " e q p p g e v k x k v { " v q " u w r r q t v " u o c t v " e k v { " c p f " c i t k e w n w t c n " c r r n k e c v k q p u " k p " e q o o w p k v k g u " c e t q u u " v j g " e q w p v t { o v j c v " o c m g " v j g " 7 0 ; " I J | " d c p f " c " w p k s w g " q r r q t w p k v { " v q q " t g u v t k e v k x g " c p " Q Q D G " n k o k v " y q w n f " o c m g " v j g u g " m k p f u " q h " w u g " e c u g u " k o r q u u k d n g ⁶⁹³

3: 40^A Vjg"Yk/Hk"Cnnkpeg"tgeq o o gpfu"cu" o qtg"pwcpegf"cr r tqce j"dcugf"qp"cv"vjg"/49"fd o l o J |" nk o kv"cv"qt"cdq xg"70; 47" I J |"vjcv"vjg"Eq o o kuukqp"jcu"ghhgevkgxn{"cr r nk gf"vq"W/PKK/5"vtcpu o kuukqp"vq" r t q v e v " K V U " q r g t c v k q p u " " U r g e k h k e c m n { . " h q t " q w w f q q t " W / P K K / 6 " d c p f " f g x k e g u . " Y k / H k " C n n k p e g " r t q r q u g u " Q Q D G " n k o k v u " v j c v " o k t t q t " v j g " g z k u k p i " n k o k v u " h q t " W / P K K / 5 " f g x k e g u " c v " c p f " c d q x g " 7 0 : ; 7 " I J | " * k 0 g 0 . / 7 " f D o l o J | " c v " 7 0 : ; 7 " I J | . " f g e t g c u k p i " n k p g c t n { " v q " / 4 9 " f D o l o J | " c v " 7 0 ; 4 7 " I J | + ⁶⁹⁴ " V j g " Y k / H k " C n n k p e g " c u u g t v u " v j c v " v j g u g " W / P K K / 5 " Q Q D G " n k o k v u " j c x g " r t q x g p " v q " d g " g h h g e v k x g " k p " r t q v e v k p i " K V U " = " v j g t g " k u " p q " d c u k u " h q t " k o r q u k p i " o q t g " u v t k p i g p v " Q Q D G " n k o k v u " q p " q r g t c v k q p u " k p " v j g " W / P K K / 6 " d c p f " u k p e g " v j g " E q o o k u u k q p " j c u " c a t g c f { " c h h k t o g f " v j c v " v j g " W / P K K / 5 " Q Q D G " n k o k v u " c h h q t f " u w h h k e g p v " r t q v e v k p u " v q " F U T E " u { u v g o u " c p f " E / X 4 Z " q r g t c v k q p u " f q " p q v " t g s w k t g i " t g c v g t " r t q v e v k p u " v j c p " F U T E " q r g t c v k q p u " " V j g " Y k / H k " C n n k p e g " c t i w g u " v j c v " v j g " E q o o k u u k q p " u j q w n f " t g l g e v " c t i w o g p v u " h q t " o q t g " t g u v t k e v k x g " Q Q D G " n k o k v u " d g e c w u g " k o r q u k p i " r t q j k d k v k x g n { " d w t f g p u q o g " c p f " w p p g e g u u c t { " d c p f " e q g z k u v p e g " o g c u w t g u " q p " W / P K K / 6 " f g x k e g u " y q w n f " r t g e n w f g " e q o o g t e k c n " x c d k n k v { " q h " v j k u "

⁶⁸⁸ See 5.9 GHz NPRM. "56"HEE"Te f"cv"34845." rctcu⁰"76/770"

⁶⁸⁹ I O"Eq o o gpvu"cv"33="Vq{qvc"Eq o o gpvu"cv"3:="Ect"4"Ect"Eq o o gpvu"cv"3:="KGGG"382; " Y qtmkpi" I tqwr" Eq o o gpvu"cv"37."WU"Vgejpkecn"Cfxkuqt{" I tqwr"Eq o o gpvu"cv"33="Xqnmuy ci gp"Eq o o gpvu"cv";="cpf"Hqt f"Eq o o gpvu" cv"32⁰

⁶⁸: "See."e.g."Dtqcf eq o ."Kpe⁰"cpf"Hcegdqmq."Kpe⁰"Eq o o gpvu"cv"7/8="F{pcoke"Urgewt o"Cnnkpeg"Eq o o gpvu"cv"6=" Yk/ Hk" Cnnkpeg"Eq o o gpvu"cv"8/9⁰

⁶⁸: Y KURC"Eq o o gpvu"cv"8⁰

⁶⁹²Ngwgt"htq o"Ejtku"U | { o cpumk."Dtqcf eq o="Tqd"Cnfgthgt."EcdngNcd u="Cncp"Pqt o cp."Hcegdqmq="cpf"Fcpkgngg" Rk^ogtgu."PEVC."vq"Octngpgg"J⁰"Fqtvej."Ugetgvct{."HEE."GV"fqemvg"p q⁰3; /35: "hkngf"Lwn{"53."4242+"Eq o r t q o k u g " R t q r q u c n " N g w g t + " c v " 6 ⁰

⁶⁹³Id⁰"cv"3."7⁰

⁶⁹⁴ Yk/Hk"Cnnkpeg"Eq o o gpvu"cv"9/:="Tgrn{"cv"9⁰

dcpf"cpf" fghcv"vjg" qdlgevkxg"qh" o cmkpi" cffkvpqpcn"urgetw o "cxckncdng" hqt" wpnkegpugf" qrgtcvkqpu⁶⁹⁵" Vjg" Yk/Hk" Cnnkpege" cnuq" uwr rqtvu" cr rn {kpi" vjg" gzkvki" W/PKK/5" QDGD" nk o kvu" cv" vjg" nq ygt" gfi g" qh" vjg" W/PKK/5" dcpf" hqt" qwwfqqt" W/PKK/6" fgxkegu. "qt" fgxkegu" vjcv" qrgtcvg" cetquu" c" ukp ing" e jcppgn" vjcv" urcpu" vjg" W/PKK/5" cpf" W/PKK/6" dcpfu. "k0g0." cv" 70947" I J |. " y jkng" pqv" k o rqukpi" cp { " QDGD" nk o kv" hqt" W/PKK/6" fgxkegu" cv" vjg" W/PKK/5" W/PKK/6" dcpf" gfi g" *k0g0." cv" 70: 72" I J | +⁶⁹⁶

3: 50^A Hqt" qwwfqqt" W/PKK/6" ceeguu" rqpki" fgxkegu" qt" qwwfqqt" ceeguu" rqpki" fgxkegu" vjcv" qrgtcvg" cetquu" c" ukp ing" e jcppgn" vjcv" urcpu" vjg" W/PKK/5" dcpf" W/PKK/6" dcpfu. " y g" rtrqruq" vjg" qwwfqqt" W/PKK/6" QDGD" nk o kvu" tgeq o o gpf g" d { " vjg" Yk/Hk" Cnnkpege" qh" /7" fD o l O J | " cv" 70: ; 7" I J |. " fgetgcukpi" nkpgctn { " vq" /49" fD o l O J | " cv" 70: 47" I J |. " o gcuwtg" wukpi" cp" TOU" o gcuwtg o gpv⁰" Y g" ctg" pqv" eqpxkpegf" vjcv" vjg" o qtg" tgnzczgf" QDGD" nk o kvu" uwi i guvgf" d { " wpnkegpugf" rtrqrpqpvu" y qwnf" c fgs wcvgn { " rtrqgev" KVU" qrgtcvkqpu" htq o " jct o hwn" kpvgtgtgpeg" ukpeg" vjg { " ctg" nguu" tguvtkevkxg" vjcp" gzkvki" W/PKK/5" QDGD" nk o kvu" Y g" ctg" cnuq" pqv" eqpxkpegf" vjcv" vjg" o qtg" uvtki" gpv" QDGD" nk o kvu" uwi i guvgf" d { " KVU" rtrqrpqpvu" ctg" pgeguuct { " vq" rtrqgev" cflcegpv" dcpf" KVU" qrgtcvkqpu" ukpeg" vjg { " ctg" o qtg" tguvtkevkxg" vjcp" vjg" gzkvki" W/PKK/5" QDGD" nk o kvu. " y jkej" vjg" Eq o o kuukqp" rtxkqwn { " chhkt o gf" y qwnf" rtrqgev" FUTE" qrgtcvkqpu" cpf" jcxg" cntgcf { " rtrqxp" vq" dg" ghgvevkxg" kp" rtrqgevki" KVU" qrgtcvkqpu" htq o " jct o hwn" kpvgtgtgpeg⁶⁹⁷" Y g" cnuq" rtrqruq" vq" cr rn { " vjg" gzkvki" W/PKK/5" QDGD" nk o kvu" cv" vjg" nq ygt" gfi g" qh" vjg" W/PKK/5" dcpf" hqt" qwwfqqt" W/PKK/6" fgxkegu. "qt" fgxkegu" vjcv" qrgtcvg" cetquu" c" ukp ing" e jcppgn" vjcv" urcpu" vjg" W/PKK/5" cpf" W/PKK/6" dcpfu. "k0g0." cv" 70947" I J |. " y jkng" pqv" k o rqukpi" cp { " QDGD" nk o kvu" hqt" W/PKK/6" fgxkegu" cv" vjg" W/PKK/5" W/PKK/6" dcpf" gfi g. "k0g0." cv" 70: 72" I J | ⁰" Y g" dngkxg" vjcv" vjg" g" nk o kvu" y knn" rtrqgev" cflcegpv" dcpf" KVU" qrgtcvkqpu" htq o " jct o hwn" kpvgtgtgpeg" fwg" vq" wpnkegpugf" qrgtcvkqpu" kp" vjg" W/PKK/6" dcpfu. " uwr rqt" ugrtcvg" W/PKK/5" cpf" W/PKK/6" dcpfu" vq" rtrqxfg" hngzdknk { " hqt" fgukipki" W/PKK/5" gswkr o gpv" wpfgt" vjg" nguu" uvtki" gpv" QDGD" twng" cv" vjg" wr rgt" gfi g" qh" vjg" dcpf. " cpf" rtrqxfg" hngzdknk { " hqt" fgxkegu" vq" qrgtcvg" cetquu" vjg" W/PKK/5" cpf" W/PKK/6" dcpfu" wukpi" vjg" ykfgu" e jcppgn" dcpf" ykf vj" rgt o kvgf" wpfgt" vjg" KGGG" : 24033" uvcpfctf⁰" Y g" uggm" eq o o gpv" qp" vjg" g" rtrqruq⁰

3: 60^A Protection of Fixed-Satellite Service Operations⁰ "Kp" vjg" Hktuv" Tgrqvt" cpf" Qtfgt" kp" vjku" rtrqegfki. " y g" fgenkpgf" vq" c fqr v" UGU" C o gkteq o ou" cpf" Kpvgnucv⁰ uwi i guvkqp" vq" guvcdnuj" j" c" o czk o w o " rgt o kuukdng" ci i tgi cvg" r qygt" nk o kv" hqt" W/PKK/6" dcpf" wpnkegpugf" fgxkegu⁰ qrgtcvkqpu" vjcv" y qwnf" dg" o qpkvqtf" cpf" eqpvtnmgf" d { " cp" Cwvq o cvke" Htgs wgp { " Eqqt fkpvcqp" *CHE+ " u" vq" jgnr" rtrqgev" HUU" qrgtcvkqpu⁰ " J qy xgt. " cu" c" r tgecvkqpet { " o gcuwtg" vq" hwtvjt" rtrqgev" HUU" qrgtcvkqpu" htq o " jct o hwn" kpvgtgtgpeg. " y g" rtrqruq" vq" tgs wktg" W/PKK/6" dcpf" qwwfqqt" ceeguu" rqpki" vq" nk o kv" vjg" o czk o w o " GKTR" cdq xg" c" 52" fgi tgg" gngxcvkqp" cpi ng" vq" 43" fD o. " y jkej" ku" uk o knct" vq" y jcv" vjg" Eq o o kuukqp" cntgcf { " tgs wktg" kp" vjg" W/PKK/3. " W/PKK/7. " cpf" W/PKK/9" dcpfu" vq" rtrqgev" HUU" qrgtcvkqpu⁶⁹⁸" V jku" um { y ctf" tguvtkevkq" u j qwnf" c f fgtuu" UGU" C o gkteq o ou" cpf" Kpvgnucv⁰ eqpegtpu" cdqw" r qvgnknci i tgi cvg" kpvgtgtgpeg" htq o " W/PKK/6" dcpf" wpnkegpugf" qrgtcvkqpu⁶⁹⁹" Ukpeg" y g" fq" pqv" g z r gev" qwwfqqt" ceeguu" rqpki" vq" tcfkcv" uk i pkhkecpv" r qygt" um { y ctf. " y g" fq" pqv" dngkxg" vjku" tgs wktg o gpv" y knn" k o rqug" c" dwt fgp" qp" qt" chhgev" vjg" wvknkv { " qh" qwwfqqt" ceeguu" rqpki" wugtu⁰

3: 70^A Y g" fq" pqv" hkp" kv" pgeguuct { " vq" rtrqruq" vq" tguvtke" vjg" r qygt" tcfkcv" wr y ctf" htq o " W/PKK/

⁶⁹⁵ Yk/Hk" Cnnkpege" Tgrn { " cv" 8/90" See also" Revision of Part 15 of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-NII) Devices in the 5 GHz Band." GV" Fqemg" Pq⁰ 35/6; " Hktuv" Tgrqvt" cpf" Qtfgt. " 4; " HEE" Tef" 6349*4236+* U-NII 5 GHz Report and Order+* c f l k p i " 70: 47/70: 72" I J | " vq" vjg" 70947/70: 72" I J | *W/PKK/5+ dcpf" cpf" fghgtkpi" c" fgekukqp" qp" y jvjt" vq" c n n q y " w p n k e g p u g f " f g x k e g u " v q " w u g " v j g " 70572/70692" I J | *W/PKK/4D+ " cpf" 70: 72/70; 47" I J | *W/PKK/6+ dcpfu+. recon. denied." Og o qtcpfw o " Qrpkqp" cpf" Qtfgt. " 53" HEE" Tef" 4539. " 4546/47. " rctcl⁰ 45*4238+0

⁶⁹⁶ Yk/Hk" Cnnkpege" Eq o o gpvu" cv" 4/50"

⁶⁹⁷ Revision of Part 15 of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-NII) Devices in the 5 GHz Band." Og o qtcpfw o " Qrpkqp" cpf" Qtfgt. " 53" HEE" Tef" 4539. " 4546. " rctcl⁰ 45*4238+0

⁶⁹⁸ 69" EHT" ÈÈ" 370623* c + * 3+. " 370629* c + * 6+0" See also" Unlicensed Use of the 6 GHz Band." GV" Fqemg" Pq⁰ 3: /4; 7. " Tgrqvt" cpf" Qtfgt" cpf" Hwtvjt" Pqkge" qh" Rtrqruq" f" Twng o cmkpi. " 57" HEE" Tef" 5: 74. " 5: : 8/ : 9. " rctcl⁰; 4*4242+0

⁶⁹⁹ UGU" C o gkteq o " cpf" Kpvgnucv" Eq o o gpvu" cv" 6. " : / ; 0"

6"enkpv"fgxkegu"cu"y"grtqrqvg"vq"tgs wktg"htq"qwwfqq"ceeguu"rqpvu" Y g"dgnkxg"kv"ku"wpnkmg"v"j cv" tncvknxgn{"nqy/rqygt"wpnkpgugf"fgxkegu"y kmm"ecwug"jct o hwn"kpvgthgtgpeg"vq"tgegkxgtu"qp"i guvcvkqpc{" ucvgmknvgu"cr rtqzk o cvgn{"57.: 22"m o "cdqxg"v j g"gs wcvqt"cpf"uggm"eq o o gpv" Y g"rtqrqvg"vq"nk o kv"wr y ctf" r q y g t"htq o "qwwfqq" W/PKK/6"ceeguu"rqpvu" o g t g n {"c u" c" r t g e c w k q p c t {" o g c u w t g. "c u" v j g {"c t g" o q t g" n k m g n {"v q" q r g t c v g" y k v j" j k i j g t" r q y g t" Y j k n g" e n k g p v" f g x k e g u" e c p" q r g t c v g" y k v j" c p" G K T R" c u" j k i j" c u" 52" f D o " * 8" f D" n q y g t" v j c p" c e e g u u" r q k p v u" o c z k o w o "c m n q y g f" r q y g t+. " y g" h k p f" v j c v" v j g {"c t g" n g u u" n k m g n {"v q" e c w u g" k p v g t h g t g p e g" v q" u c v g m k n v g" t g e g k x g t u" v j c p" u k o k n c t n {" r q y g t g f" q w w f q q t" c e e g u u" r q k p v u" f w g" v q" v j g" p c v w t g" q h" v j g k t" q r g t c v k p o" Y g" g z r g e v" v j g o" v q" i p p g t c m {"q r g t c v g" c v" o w e j" n q y g t" r q y g t" n g x g n u" v q" o c z k o k | g" d c v g t {"n k h g" c p f" e q o r n {" y k v j" t c f k q h t g s w g p e {" * T H+ " g z r q u w t g" n k o k v u 0 6 9: " K p" c f f k v k a p. " e n k g p v" f g x k e g u" e q o o w p k e c v g" y k v j" c e e g u u" r q k p v u" k p" c p" c u {" o o g v t k e" p c v w t g. " k p" v j c v" t g n c v k x g n {" n k v v n g" f c v c" k u" v t c p u o k v g f" k p" v j g" w r n k p m" f k t g e v k a p" * k 0 g 0" h t q o" v j g" e n k g p v" f g x k e g u" c u" e q o r c t g f" v q" v j g" f q y p n k p m" f k t g e v k a p" y j g t g" c p {" u k p i n g" c e e g u u" r q k p v" o c {" d g" u g t x k p i" o c p {" e n k g p v" f g x k e g u" O q t g x q g t. " e n k g p v" f g x k e g u" v r k e c m {" q r g t c v g" y k v j" q o p k f k t g e v k a p p c n" c p v g p p c u" n q y" c p v g p p c" j g k i j v u" c p f" k p" c" o q d k n g" q t" r q t v c d n g" o q f g" * k 0 g 0. " p q v" k p u v c m n g f" k p" r g t o c p g p v" q w w f q q t" n q e c v k a p u+ " V j w u. " y g" g z r g e v" v j c v" w r y c t f n {" f k t g e v g f" e n k g p v" f g x k e g u" g o k u u k p u" y k m n" q h v g p" d g" c v" n q y" r q y g t" n g x g n u" c p f" u j k n g f g f" v q" u q o g" z v g p v" d {" d w k n f k p i u. " h q n k c i g. " q t" q v j g t" q d u v t w e v k a p u" Y g" u g m" e q o o g p v" q p" v j g u g" r t q r q u c n" c p f" e q p e n w u k a p u"

3. Increased Transmit Power for Indoor U-NII-4 Access Points

3: 80A Kp"v j g" Hktuv" Tgrqtv" c p f" Q t f g t. " y g" c f q r v" c 42" f D o | O J | " n k o k v" h q t" k p f q q t" W/PKK/6"ceeguu" r q k p v u. " n c t i g n {" v q" r t q r g e v" e q / e j c p p g n" K V U" k p e w o d g p v" q r g t c v k a p u" Y g" r t q r q u g" v j c v" k p f q q t" W/PKK/6"fgxkegu" d g" r g t o k v g f" v q" k p e t g c u g" r q y g t" v q" 45" f D o | O J | " q t" 58" f D o " t c f k c v g f" r q y g t" h q t" c m n" d c p f y k f v j u" w r q p" v j g" n c v g t" q h" q p g {" g c t" h q m n q y k p i" v j g" g h h g e v k x g" f c v g" q h" v j g" Hktuv" Tgrqtv" c p f" Q t f g t" * k 0 g 0. " v j g" f c v g" d {" y j g p" K V U" q r g t c v k a p u" o w u v" v t c p u k v k a p" q w w" q h" v j g" 70: 72/70: ; 7" I J | " d c p f+ " q t" v j g" g h h g e v k x g" f c v g" q h" c" U g e q p f" T g r q t v" c p f" Q t f g t" c f q r v k p i" v j g u g" r t q r q u g f" r q y g t" k p e t g c u g u" Y g" u g m" e q o o g p v" q p" v j k u" r t q r q u c n" Y g" p q v g" v j c v" v j g u g" r t q r q u g f" n k o k v u" c t g" e a p u k u v g p v" y k v j" P V K C o u" t c f k n q e c v k a p" r t q v g e v k a p" c p c n {" u k u" K p" o c m k p i" v j k u" r t q r q u c n. " y g" f q" p q v" r t q r q u g" v q" e j c p i g" c p {" q v j g t" c u r g e v" q h" k p f q q t" W/PKK/6"fgxkegu"v j g {" y q w n f" u v k m" d g" t g s w k t g f" v q" k p e q t r q t c v g" c m n" v j g" o k v k i c v k a p" h g c v w t g u" y g" c f q r v g f" k p" v j g" Hktuv" Tgrqtv" c p f" Q t f g t. " k p e n w f k p i" v j g" t g s w k t g o g p v" v q" q d v c k p" r q y g t" h t q o" c" y k t g f" e a p p g e v k a p. " c" r t q j k d k v k a p" q p" y g c v j g t k | g f" g p e n q u w t g u" c p f" c" t g s w k t g o g p v" h q t" c p" k p v g i t c v g f" c p v g p p c o" E n k g p v" f g x k e g u" y q w n f" d g" n k o k v g f" v q" r q y g t" n g x g n u" 8" f D" d g n q y" v j g" r q y g t" n k o k v u" h q t" c e e g u u" r q k p v u"

4. U-NII-4 Client to Client Communications

3: 90A V j g" t w n g u" c f q r v g f" k p" v j g" Hktuv" Tgrqtv" c p f" Q t f g t" r t q j k d k v" W/PKK/6"enkpv/vq/enkpv" e q o o w p k e c v k a p u" v q" r t q r g e v" e q / e j c p p g n" k p e w o d g p v" K V U" q r g t c v k a p u" c p f" h g f g t c n" t c f k n q e c v k a p" u v c v k a p u" D w v" q p n {" v j g" h g f g t c n" t c f k n q e c v k a p" u v c v k a p u" y k m n" t g s w k t g" r t q v g e v k a p" c h v g t" K V U" q r g t c v k a p u" v t c p u k v k a p" q w w" q h" v j g" 70: 72/70: ; 7" I J | " d c p f 0" Y g" u g m" e q o o g p v" q p" v j g v j g t" y g" e c p" t g o q x g" v j g" e n k g p v" v q / e n k g p v" e q o o w p k e c v k a p u" r t q j k d k v k a p" w r q p" v j g" n c v g t" q h" q p g {" g c t" h q m n q y k p i" v j g" g h h g e v k x g" f c v g" q h" v j g" Hktuv" Tgrqtv" c p f" Q t f g t" * k 0 g 0. " v j g" f c v g" d {" y j g p" K V U" q r g t c v k a p u" o w u v" v t c p u k v k a p" q w w" q h" v j g" 70: 72/70: ; 7" I J | " d c p f+ " q t" v j g" g h h g e v k x g" f c v g" q h" c" U g e q p f" T g r q t v" c p f" Q t f g t" g n k o k p c v k p i" v j g" r t q j k d k v k a p o" C u" c p" k p k v c n" o c v g t. " y g" p q v g" v j c v" P V K C o u" c p c n {" u k u" h q t" r t q v g e v k p i" v j g u g" 52" t c f k n q e c v k a p" u k v g u" e q p e n w f g u" v j c v" E / X 4 Z" q p / d q c t f" w p k v u" e c p" q r g t c v g" v j t q w i j q w v" v j g" W 0 U 0" y k v j" p q" n k o k v c v k a p o" V j c v" c p c n {" u k u" c u u w o g f" v j c v" u w e j" q p / d q c t f" w p k v u" q r g t c v g" y k v j" r q y g t" n g x g n u" w r" v q" 39" f D o 142" O J | " q t" 72" o Y 0 6 9: " V j g" g s w k x c n g p v" r q y g t" h q t" y k f g t" e j c p p g n u" k u" 42" f D o 1" 62" O J | " * 322" o Y +. 45" f D o 1" : 2" O J | " * 422" o Y + " c p f" 48" f D o 1382" O J | " * 622" o Y + 0" Q w t" r t q r q u c n" h q t" E / X 4 Z" q p / d q c t f" w p k v u" y q w n f" n k o k v" r q y g t" v q" p q" o q t g" v j c p" 45" f D o " G K T R 0" Y g" v j g t g h q t g" u g m" e q o o g p v" q p" y j g v j g t" y g" e c p" c m n q y" W / P K K / 6" e n k g p v / v q / e n k g p v" f g x k e g u" e q o o w p k e c v k a p u" c v" v j c v" u c o g" 45" f D o " G K T R" r q y g t" n g x g n u" U w e j" e q o o w p k e c v k a p u" e q w n f" g p c d n g" k p p q x c v k x g" p g y" x k t v w c n" t g c n k v {" q t" c w i o g p v g f" t g c n k v {"

69: "Cnvj q w i j" q p g" h k n g t" u w d o k v g f" n g v g t u" q p" T H" t c f k c v k a p" e q e p t p u. " v j c v" k u u w g" k u" q w v u k f g" v j g" u e q r g" q h" v j k u" r t q e g g f k p i 0" See, e.g., "Ngwgt"htq o "Mgxp" O q w w u. " Q w w t g c e j" F k t g e v q t. " E c n k h q t p k c" D t c k p" V w o q t" C u u q e k c v k a p" * C w i 0 42. 4242+0"

69: "See o E q o r c v k d k n k v {" q h" H g f g t c n" U { u v g o u" Q r g t c v k p i" k p" v j g" 7: 72/7; 47" O J | " D c p f" y k v j" K p v g m k i g p v" U { u v g o u" c p f" W p n k e p u g f" P c v k a p c n" K p h q t o c w k a p" K p h t c u w t w e v w t g" F g x k e g u 0 0" P c v k a p c n" V g n g e q o o w p k e c v k a p u" c p f" K p h q t o c v k a p" C f o k p k u v t c v k a p. " K V U" F g r n q {" o g p v" c p f" V g e j p k e c n" R t c t o g v g t u" c v" 330"

cr rnkcevkqpu"kp" o wej "vjg" y c{ "uk o knct" cr rnkcevkqpu" jcxg" dggp" gpxkukqpgf" wpfgt" vjg" Eq o o kuukqpuu" rtrqrucnu" hqt" wdkswkwvqu" qrgtcvkqp" qh" xgt{ "nqy" rrygt" fgxkegu" kp" vjg" 8" I J | "W/PKK" dcpfu0

3 : : 0A Cnvjqwi j "W/PKK/6" fgxkegu" y qwnf" pqv" pgeguuctkn{ "dg" kp" o qxkpi" xgjkengu" nkmg" E/X4Z" qp/ dqctf" wpkvu." y qwnf" vjgkt" qrgtcvkqpu" uvknn" dg" hwpevkqpcnn{ "uk o knct" vq" uwej" qrgtcvkqpu" uq" cu" vq" cmqy" vjg" uc o g" rrygt" ngxgnu" cpf" uvknn" rtygev" hfgtgn" tcfkqncqcvkqp" qrgtcvkqpuA" Kh" eqpegtpu" tgi ctfkpi" rrvqgvkcn" jct o hwn" kpvgtgtgpeg" vq" hfgtgn" qrgtcvkqpu" rgtukuvu." ctg" vjggt" o gcuwtgu" y g" eqwnf" vcmg" vq" gpcdng" W/PKK/6" enkgpv/vq/ enkgpv" eq o o wpkecvkqpu" kp" ctgcu" qwvukfg" vjg" gzenwukqp" | qpgu" qt" y kvj" nqygt" rrygt" y kvj" kp" vjg" gzenwukqp" | qpguA" Hqt" gzc o rng. "dgecwug" enkgpv" fgxkegu" ctg" qhvgn" u o ctv" rj qpgu" y kvj" g o dgffgf" i gqncqcvkqp" vgejppnqi { ".eqwnf" cp" crr" qt" fcvdcug" eqppgevkqp" qt" qv jgt" o kvki cvkqp" o gvj qf" dg" wugf" vq" eqpvtn" rrygt" qt" cxqkf" egtvckp" ctgcu" y jgtg" vjg" rrvqgvkcn" hqt" ecwukpi" jct o hwn" kpvgtgtgpeg" ku" vjg" i tgcvguA" Y g" cnuq" pqvg" vjcv" 7 ICC" tgs wguv" vjcv" y g" rgt o kv" qp/dqctf" wpkvu" vq" vtcpu o kv" y kvj" cu" o wej" cv" 55" fD o "GKTR" 06:2" J qy" y qwnf" qp/dqctf" wpkvu" cv" jki jgt" rrygt" ngxgnu" chhgev" vjg" cdnkknv{ "vq" rgt o kv" enkgpv/vq/ enkgpv" eq o o wpkecvkqpuA" 7 ICC" cnuq" uvcv" vjcv" W/PKK/6" enkgpv/vq/ enkgpv" qrgtcvkqpu" eqwnf" tgfweg" vjg" ghgvekvxgpguu" qh" cflcegpv" dcpf" E/X4Z" uchgv{ "ugtxkegu" 6:3" Y g" uggm" eq o o gpv" qp" y jvgjgt" y g" ecp" rgt o kv" enkgpv/vq/ enkgpv" eq o o wpkecvkqp" cpf" wpfgt" y jcv" eqp fkvkqpu" Eq o o gpvgtu" u j qwnf" rtxkfg" vgejpkcn" cpf" qrgtcvkqpu" fgvcnu" cu" vq" j qy" fgxkegu" qrgtcvkpi" kp" c" enkgpv" vq" enkgpv" o qfg" y qwnf" cxqkf" ecwukpi" jct o hwn" kpvgtgtgpeg" vq" eq/ e j c p p g n" h f g t c n" t c f k q n c q c v k q p" q r g t c v k q p u" c u" y g n n" c u" v q" c f l c e g p v" d c p f" E / X 4 Z" u c h g v { " u g t x k e g u" 0

C. Other Spectrum for ITS

3 : ; 0A Cu" fkuewuugf" kp" vjg" Hktuv" Tgrqtv" cpf" Qtfgt. "vjg" tgeqt" uwr rqtvu" 52" o gicjgtv| "qh" urgevtw o" cu" uwhhkekgpv" vq" rtxkfg" dcue" uchgv{ "hwpevkqpu" qh" KVU" ewttgpnv{ "fgrnq" {gf" cpf" wpfgt" eqpukfgtcvkqp" kp" vjg" ppgt" hwwwtg" Eq o o gpvgtu" jcxg" uw i i guvgf. "j qy g x g t. " v j c v" c f f k v k q p c n" u r g e v t w o " o c { " d g" p g g f g f" g k v j g t" v q" u w r r q t v" u k o w n v c p g q w u" f g r n q { o g p v" q h" 6 I " c p f" 7 I / P T" E / X 4 Z" u g t x k e g" q t" v q" u w r r q t v" q v j g t" c f x c p e g f" e c r c d k n k v k u" d g { q p f" v j g" d c u e" u c h g v { " o g u u c i g u" e w t t g p n v { " c x c k n c d n g" 06:4

3 ; 20A Y g" uggm" eq o o gpv" qp" y jvgjgt. "pqv" y kvj" uvcpfki" qwt" fgvgt o kpcvkqp" vjcv" ewttgpn" uchgv{ /qh/ nkkg" ugtxkegu" ecp" eqpwpwg" vq" qrgtcvg" wukpi" 52" o gicjgtv| "qh" urgevtw o. "y g" u j q w n f" e q p u k f g t" c n n q c e v k p i" c f f k v k q p c n" u r g e v t w o" h q t" K V U" c r r n k c e v k q p u" H q t" y j c v" r w t r q u g u" y q w n f" c f f k v k q p c n" u r g e v t w o" d g" p g g f g f A" Y g" p q v g" v j c v" v j g" t g e q t f" g x k f g p e g" k p f k e c v g u" v j c v" u g x g t c n" e c v g i q t k g u" q h" v t c p u r q t v c v k q p" t g n c v g f" e q o o w p k e c v k q p u" c p f" q v j g t" K V U" c r r n k c e v k q p u" c t g" e w t t g p n v { " d g k p i" o g v" v j t q w i j" u r g e v t w o" q w v u k f g" q h" v j g" 70; " I J | " d c p f" 0" H q t" g z c o r n g. " e c r c d k n k v k u" n k m g" d n k p f" u r q v" f g v g e v k q p. " n c p g / m g g r" c u u k u v. " c p f" h g c v w t g u" v j c v" f q" p q v" q r g t c v k" k p" v j g" 70; " I J | " d c p f. " y j k e j" r t x k f g" u w d u v c p v k n" c w v q o q v k x g" c p f" x g j k e w n c t" u c h g v { " h w p e v k q p u" 06:5" R e p c u q p k e" k p" k v u" e q o o g p v u" u v c v u" v j c v" v g e j p p n q i k i g u" n k m g" N k F C T. " 98 / : 3" I J | " d c p f" t c f c t. " q t" q v j g t" n k p g / q h / u k i j" v u g p u q t u" e c p" u w r r q t v" c f x c p e g f" f t k x g t" c u u k u v c p e g" u { u v g o u" * g l i 0" c w v q o c v k e" g o g t i g p e { " d t c m k p i" q t" n c p g / m g g r k p i" + 06:6" V q" v j g" g z v g p v" u q o g" K V U" c r r n k c e v k q p u" * q t" v j g k t" h w p e v k q p c n" g s w x c n g p v" + c t g" e w t t g p n v { " d g k p i" r t x k f g f" w u k p i" c n v g t p c v k x g" u r g e v t w o" d c p f u. " e q o o g p v g t u" u j q w n f" g z r n c k p" y k v j" u r g e k h k e k v { " y j { " g z k u v k p i" u r g e v t w o" t g u q w t e g u" c t g" k p c f g s w c v g" c p f" y j c v" u r g e k h k e" u c h g v { " d g p g h k v u" y q w n f" t g u w n v" h t q o" o c m k p i" c f f k v k q p c n" u r g e v t w o" c x c k n c d n g" h q t" u w e j" u g t x k e g u" 0

3 ; 30A Rcpucqpk" uw i i guv" vjcv" jctpguuki" vjg" cfxcpcvci" qh" hwnn{ "cwvq" o cvgf" vtcpurqtvcvkqp" tgs wktgu" eqqrgtcvkqp" dgyv" ggp" fkhgtgpv" xgjkengu" y kvj" fkhgtgpv" ngxgnu" qh" cwvq" o cvkqp" cpf" vjg" vtcpurqtvcvkqp" kphtcuwtwevwtg" 06:7" Uk o knctn{ ".vjg" W0U0" FQV" uvcvgf" vjcv" kp" xgjkeng" ugpuqtu" ctg" uwuegrvkdng" vq" odnkpf" urquuo"

6:2" 7 ICC" Oct0"; .4242" Ex Parte0

6:3" 7 ICC" Pqx0" 32.4242" Ex Parte0

6:4" See, e.g., "Ngwgt" htq o "Ugcp" V0" Eqp y c { ".Eqwpugn" vq" vjg" 7 I " Cwvq o qvkg" Cuuqekcvkqp. "vq" Octngpg" J0" Fqtvej. " Ugetgvct { "HEE. "GV" Fqemgv" Pq0" 3 ; /35 : " * h k n g f" U g r v 0 ; . 4 2 4 2 / 0

6:5" PEVC" Tgrn { "cv" 4/60

6:6" Rcpucqpk" Eq o o gpvu" cv" 360

6:7" Rcpucqpk" Eq o o gpvu" cv" 360

y jgp"vjg{"ctg"qrgrtcvki"qwvukfg"qh"nkpg/qh/uki jv"uegpctkqu06:8"W0U0" FQV"enck o u"vjcv"vjg"eq o dkpcvkqp"qh" ugpquatu"cpf"X4Z." ykvj"ceeguuv"vq"fgfkecvgf"urgetw o ." yknn"dguv"rtqxfg"gpjcpeg o gpvu"vq"ftkxgt"uchgv{"cpf" yknn"uwrrqt"cwvq o cvgf"ftkxkpi"dgjcxkqt"kp"vjg"hwvwtg06:9"

3;40A Yg"jcxg"cntgcf{"tgeqipk|gf"vjcv"E/X4Z"ku"vjg"rtghgtgf"ejqkeg"htq"fgnrq{ o gpv"kp"vjg" wrrgt"52"ogicjgtv|"rqtvkqp"qh"vjg"dcpf06:1" Jqy."kp"rctkewnct."yqwnf"cf"fkvkqpcn"urgetw o "dg"wuvg"vq" ngxgtcig"vjku"vgejppnqi{"cpf"ckf"kp"kvu"fgnrq{ o gpvA"Uj"qwnf"y"y"fgvgt okpg"vjcv"cf"fkvkqpcn"urgetw o "ku" pggfgf"vq"rtqxfg"cfxcpegf"KVU"cr"rnkecvkqpu." y jcv"urgetw o "dcpf*u"ujqwnf"y"y"eqpukfgtA"Qrgp" Vgejppnqi{"Kpukvwvg"cpf"Rwdnke"Mpqqyngfig"jcxg"ogpvkqpgf"vjg"5672/5772"OJ|"dcpf06:1"Qvjgt" eq o o gpvgtu."nkmg" F {pc o ke"Urgetw o "Cnnkcepeg"cpf"PEVC."rtqrqugf"cmnqy kpi "E/X4Z"vq"qrgrtcvq"kp"vjg"60;" I J|"dcpf06:2"Qvjgt"eq o o gpvgtu"rtqxfg"uk o knct"xkg y u06:3"Kp"vjg"kpvtgxpki"rgtkqf"ukpeg"cf"qrkvkqp"qh" vjg"5.9 GHz NPRM." j q y g x g t . " v j g " E q o o k u u k q p " j c u " c f q r v g f " t w n g " e j c p i g u " h q t " v j g " 6 0 ; " I J | " d c p f " v q " c m n q y " h q t " p q p / r w d n k e " u c h g v { " q r g r t c v k p " c p f " n g c u k p i " e t t c p i g o g p v u " c p f " j c u " r t q r q u g f " c m n q e c v k p i " v j g " 5 0 6 7 / 5 0 7 7 " I J | " d c p f " h q t " h n g z k d n g / w u g " u g t x k e g 0 6 : 4 " Y g " c n u q " p q v g " v j c v " v j c v " e q o o g p v g t u " j c x g " o g p v k q p g f " c " o e n g e p " u j g g v o " c r r t q c e j " y j g p " e q p u k f g t k p i " v j g " d g u v " u r g e t w o " d c p f " k p " y j k e j " v q " n q e c v g " v j g " r t q r q u g f " E / X 4 Z " q r g r t c v k p u 0 6 : 5 " Q v j g t u " o g p v k q p " c m n q y k p i " K V U " v q " w u g " h n g z k d n g " w u g " n k e g p u g f " q t " w p n k e g p u g f " u r g e t w o " k p " v j g " y c { " q v j g t " v g e j p p n q i " k g u " f q 0 6 : 6 " E q o o g p v g t u " c f f t g u u k p i " v j k u " k u u w g " u j q w n f " r t q x k f g " u r g e k h k e " k p h q t o c v k q p " t g i c t f k p i " u r g e t w o " d c p f u " v j c v " e q w n f " u w r r q t v " K V U " q r g r t c v k p u . " v j g " v { " r g u " q h " c r " r n k e c v k q p u " q t " u g t x k e g u " v j g { " g p x k u k q p " h q t " v j c v " r c t k e w n c t " d c p f " c p f " j q y " E / X 4 Z " e q w n f " e q g z k u v " y k v j " g z k u v k p i " u r g e t w o " w u g t u " k p " v j c v " d c p f * u 0 " Y g " c n u q " p q v g " v j c v " v j g " e q o o g p v g t u " u j q w n f " e q p u k f g t " v j g " r t q r c i c v k q p " e j c t c e v g t k u v k e u " q h " v j g " u r g e t w o " v j g { " k f g p v k h { " t g n c v k x g " v q " v j g " v g e j p p n q i { " p g g f u " q h " K V U " u g t x k e g u " * g 0 i 0 " n q y " n c v g p e { . " t g n k c d k n k v { . " p q p / n k p g " q h " u k i " j v " e q o o w p k e c v k q p u . " r t q e g u u k p i " e c r c d k n k v k u . " k p v g t p c v k q p c n " v t g p f u . " c p f " t g n g x c p v " u v c p f c t f u / u g v k p i " h c e v q t u + 0 " C t g " v j g t g " q v j g t " t w n g " e j c p i g u " y g " e q w n f " o " c m g " v q " g p c d n g " x g j k e w n c t " u c h g v { / t g n c v g f " c r " r n k e c v k q p u " k p " q v j g t " d c p f u " q p " c " u j c t g f " d c u k u A "

V. PROCEDURAL MATTERS

3;50A Final Regulatory Flexibility Analysis0 Cu"tgswktgf"d{"vjg" Tgi wncvqt {"Hngzkdknk {"Cev"qh" 3; : 2*THC+. 6:7"cu"co g p f g f . " v j g " E q o o k u u k q p " j c u " r t g r t g f " c " H k p c n " T g i w n c v q t { " H n g z k d k n k v { " C p c n { u k u " * H T H C + " t g i c t f k p i " v j g " r q u u k d n g " u k i " p k h k e c p v " g e a p q o k e " k o r c e v " q p " u o c m n " g p v k v k u " q h " v j g " r q n k e k g u " c p f " t w n g u "

6:8"W0U0" FQV" Tgrn {"cv"380"

6:9"W0U0" FQV" Tgrn {"cv"; 0"

6:10" Fqp" Dwnngt. "Hqt" Gzgewkxg" Fktgevt" hqt" Eqppgevgf" Xgjkeng" cpf" Ugtxkegu. " Y j { " Y g o t g " Y q t m k p i " y k v j " S w c n e q o o " v q " G p u w t g " G x g t { " v j k p i " k p " E k v k u " U r g c m u " v j g " U c o g " N c p i w c i g . " O g f k w o " * L c p 0 ; . " 4 2 3 : + . " [jvru<ll|ogfkwoleqolekv/qhvqoqttqy|yj|ygtg/yqtmkpi/ykvj/swcneqo/vq/gpuwtg/gxgt/vjki/kp/ekvku/urgcmu/vjg/ucog/ncpiwcig/:g2ee3dhh3](http://www.fcc.gov/ohed/lekv/qhvqoqttqy/yj/ygtg/yqtmkpi/ykvj/swcneqo/vq/gpuwtg/gxgt/vjki/kp/ekvku/urgcmu/vjg/ucog/ncpiwcig/:g2ee3dhh3): "ceeguugf"Ugrw04: "4242+7 ICC"Eq o o gpvu"cv"; /320"

6:11" Oke jcg n" Ecnedtug" cpf" C o k t" Pcut. " Qrgp" Vgejppnqi {"Kpukvwvg"cv" Pgy" C o g t k e c . " o v j g " 7 0 ; " I J | " D c p f < " T g o q x k p i " v j g " T q c f d n e m " v q " I k i c d k v " Y k / H k o " c v " 5 8 * 4 2 4 2 + 0 "

6:12" F {pc o ke"Urgetw o "Cnnkcepeg"Eq o o gpvu"cv"8="PEVC"Eq o o gpvu"cv"4/5."3; 0"

6:13"KVU" C o g t k e c " E q o o g p v u " c v " 3 3 / 3 4 = " P E V C " E q o o g p v u " c v " 4 / 5 . " c p f " 3 ; = " Q r g p " V g e j p p n q i { " K p u k v w v g " c p f " R w d n k e " M p q y n g f i g " E q o o g p v u " c v " 6 / 7 . " 4 8 / 4 : = " O k e j c g n " E c n e d t u g " c p f " C o k t " P c u t . " Q r g p " V g e j p p n q i { " K p u k v w v g " c v " P g y " C o g t k e c . " o v j g " 7 0 ; " I J | " D c p f < " T g o q x k p i " v j g " T q c f d n e m " v q " I k i c d k v " Y k / H k o " c v " 4 : / 5 7 * 4 2 4 2 + = " F { p c o k e " U r g e t w o " C n n k c e p e g " E q o o g p v u " c v " 8 0 "

6:14" Amendment of Part 90 of the Commission's Rules. "YR" Fqemgy" Pq029/322. "Ukzv j" Tgrqtv" cpf" Qtfgt" cpf" Ugxgpv j" Pqvk eg" qh" Rtqrqug f" Twng o cmkpi. "HEE"42/359* tgn0" Qev04. "4242+ Facilitating Shared Use in the 3100-3550 MHz Band. " Y V " F q e m g v " P q 0 3 ; / 5 6 : " T g r q t v " c p f " Q t f g t " c p f " H w t v j g t " P q v k e g " q h " R t q r q u g f " T w n g o c m k p i . " H E E " 4 2 / 3 5 : " * t g n 0 " Q e v 0 4 . " 4 2 4 2 + 0 "

6:15" F {pc o ke"Urgetw o "Cnnkcepeg"Eq o o gpvu"cv"80"

6:16" PEVC"Eq o o gpvu"cv"50"

6:17" See"7"W0U0E0" E"8250"

cfqrvgf"kp"vjku"Hktuv"Trgrqtv"cpf"Qtfgt." y jkej"ku"hqwpf"kp"Cr rrgpfkz" F0"Vjg"Eq o o kuukqpou"Eqpuw o gt"cpf" I qxgtp o gpvcn"Chhcktu"Dwtgcw."Tghgtpeg"Kphqt o cvkqp"Egpgvt." y knn"ugpf" c"eqr {"qh"vjg"Hktuv"Trgrqtv"cpf" Qtfgt."kpenwfkpi"vjg"HTHC."vq"vjg" Ejkgh"Eqwpugn"ht" Cfxqece {"qh"vjg"U o cmm"Dwukpguu" C f o kpkuvtcvkqp}6:8"

3;60A Initial Regulatory Flexibility Analysis. o Cu"tgswtgfd{"vjg"THC."vjg"Eq o o kuukqp"jcu" r tgrctgf"cp"Kpkvkn" Tgi wncvqt {"Hngzkdknkv {"Cpcn{uku"KTHC+"qh"vjg" rquukdng"uk i pkhkecpv"geppq o ke" k o rcev"qp" c"uwduvcpvkn"pw o dgt"qh"u o cmm"gpvkvkgu"qh"vjg" r tgrqvcnu" c f f tguugf"kp"vjku" Hwtvjgt" Pqvkeg"qh"Rtqrqugf" Twng o cmkpi"0"Vjg"KTHC"ku"hqwpf"kp"Cr rrgpfkz" G0" Y tkvpgp" rwdnke"eq o o gpvu"ctg"tgsuwvgf"qp"vjg"KTHC"0" Vjgug"eq o o gpvu" o wuv"dg"hnkgf"kp"ceeqtfcpeg" y kvj"vjg"uc o g"hnkpi" fgcfnkpgu"ht"eq o o gpvu"qp"vjg" Hwtvjgt" Pqvkeg."cpf"vjg {"ujqwnf"jcxg" c"ugrctevg"cpf"fkvkepv"jcgfki" fguki"pcvki"vjg o "cu"tgu rqpugu"vq"vjg"KTHC"0" Vjg"Eq o o kuukqpou"Eqpuw o gt"cpf" I qxgtp o gpvcn"Chhcktu"Dwtgcw."Tghgtpeg"Kphqt o cvkqp"Egpgvt." y knn"ugpf" c"eqr {"qh"vjg" Hwtvjgt" Pqvkeg."kpenwfkpi"vjg"KTHC."vq"vjg" Ejkgh"Eqwpugn"ht" Cfxqece {"qh"vjg"U o cmm" Dwukpguu" C f o kpkuvtcvkqp."kp"ceeqtfcpeg" y kvj"vjg"THC}6:9"

3;70A Paperwork Reduction Act o Vjku"fqew o gpv"eqpvckpu"pgy"qt" o qfkhkgf"Kphqt o cvkqp" eqnngvckp"tgswtg o gpvu"uwdlgev"vq"vjg"Rcrgt y qtm" Tgfwevqp"cev"qh"3; ;7"RTC+."Rwdnke"Ncy" Pq0"326/350" Kv" y knn"dg"uud o kvvgf"vq"vjg"Qhhkeg"qh"Opcp i g o gpv"cpf" Dwf i gv"QOD+"ht"tgxky"wpfgt"ugevqp"5729*f+"qh" vjg"RTC"0"QOD."vjg" i gpgtcn" rwdnke."cpf"qvjgt" Hgfgtcn" c i gpekgu" y knn"dg" kpxkvgf"vq"eq o o gpv"qp"vjg"pgy"qt" o qfkhkgf"Kphqt o cvkqp"eqnngvckp"tgswtg o gpvu"eqpvckp"kp"vjku" r tqeggfki"0"Kp" c f fkvkqp." y g"pqvg"vjcv" rwtuwcpv"vq"vjg"U o cmm"Dwukpguu"Rcrgt y qtm" Tgnkgh"cev"qh"4224."Rwdnke"Ncy"329/3; ;. "ugg"66" W0U0E0" 5728*e+*6+." y g" r t g x k q w u n {" u q w i j " e q o o g p v " q p " j q y " y g " o k i j v " o h w t v j g t " t g f w e g " v j g " k p h q t o c v k q p " e q n n g v c k p " d w t f g p " h q t " u o c m m " d w u k p g u u " e q p e g t p u " y k v j " h g y g t " v j c p " 4 7 " g o r n q { g g u o o " Y g " j c x g " f g u e t k d g f " k o r c e v u " v j c v " o k i j v " c h h g e v " u o c m m " d w u k p g u u g u . " y j k e j " k p e n w f g u " o q u v " d w u k p g u u g u " y k v j " h g y g t " v j c p " 4 7 " g o r n q { g g u . " k p " v j g " H k p c n " T g i w n c v q t { " H n g z k d k n k v { " C p c n { u k u " * H T H C + . " c w c e j g f " c u " C r r g p f k z " F 0 "

3;80A Congressional Review Act o Vjg"Eq o o kuukqp"jcu"fgvgt o kpgf."cpf"vjg" C f o kpkuvtcvqt"qh" vjg"Qhhkeg"qh"Kphqt o cvkqp"cpf" Tgi wncvqt {"Chhcktu."Qhhkeg"qh"Opcp i g o gpv"cpf" Dwf i gv"eqpewtu." vjcv"vjku" twng"ku"o o clqt o wpfgt"vjg"Eqp i tguukqpcn" Tgxky"cev."7" W0U0E0"E" : 26*4-0"Vjg"Eq o o kuukqp" y knn"ugpf" c" eqr {"qh"vjg" Hktuv"Trgrqtv"cpf"Qtfgt"vq"Eqp i tguu"cpf"vjg" I qxgtp o gpv" Ceeqwpvcdknv {"Qhhkeg" rwtuwcpv"vq"7" W0U0E0"E" : 23*c+*3+*C+0"

3;90A Ex Parte Rules – Permit but Disclose. Rwtuwcpv"vq"ugevqp"303422*c+"qh"vjg"Eq o o kuukqpou" twngu.6:; "vjku" Hwtvjgt" Pqvkeg"qh"Rtqrqugf" Twng o cmkpi" u j c m m " d g " v t g c v g f " c u " c " o r g t o k v / d w v / f k u e n q u g o " r t q e g g f k p i " k p " c e e q t f c p e g " y k v j " v j g " E q o o k u u k q p o u " e x p a r t e " t w n g u 6:; " " R g t u q p u " o c m k p i " e x p a r t e " r t g u g p v c k q p u " o w u v " h n k g " c " e q r { " q h " c p { " y t k w g p " r t g u g p v c k q p " q t " c " o g o q t c p f w o " u w o o c t k | k p i " c p { " q t c n " r t g u g p v c k q p " y k v j k p " v y q " d w u k p g u u " f c { " u c h v g t " v j g " r t g u g p v c k q p " * w p n g u u " c " f k h h g t e p v " f g c f n k p g " c r r n k e c d n g " v q " v j g " U w p u j k p g " r g t k q f " c r r n k g u + 0 " R g t u q p u " o c m k p i " q t c n " e x p a r t e " r t g u g p v c k q p u " c t g " t g o k p f g f " v j c v " o g o q t c p f c " u w o o c t k | k p i " v j g " r t g u g p v c k q p " o w u v " * 3 + " n k u v " c m " r g t u q p u " c w g p f k p i " q t " q v j g t y k u g " r c t v k e r c v k p i " k p " v j g " o g g v k p i " c v " y j k e j " v j g " e x p a r t e " r t g u g p v c k q p " y c u " o c f g . " c p f " * 4 + " u w o o c t k | g " c n n " f c v c " r t g u g p v g f " c p f " c t i w o g p v u " o c f g " f w t k p i " v j g " r t g u g p v c k q p 0 " " K h " v j g " r t g u g p v c k q p " e q p u k u v g f " k p " y j q n g " q t " k p " r c t v " q h " v j g " r t g u g p v c k q p " q h " f c v c " q t " c t i w o g p v u " c n t g c f { " t g h n g e v g f " k p " v j g " r t g u g p v g t o u " y t k w g p " e q o o g p v u . " o g o q t c p f c " q t " q v j g t " h n k p i u " k p " v j g " r t q e g g f k p i . " v j g " r t g u g p v g t " o c { " r t q x k f g " e k v c k q p u " v q " u w e j " f c v c " q t " c t i w o g p v u " k p " j u " q t " j g t " r t k q t " e q o o g p v u . " o g o q t c p f c . " q t " q v j g t " h n k p i u " * u r g e k h { k p i " v j g " t g n x c p v " r c i g " c p f l q t " r c t c i t e r j " p w o d g t u " y j g t g " u w e j " f c v c " q t " c t i w o g p v u " e c p " d g " h q w p f + " k p " n k g w " q h " u w o o c t k | k p i " v j g " o " k p " v j g " o g o q t c p f w o 0 " " F q e w o g p v u " u j q y p " q t " i k x g p " v q " E q o o k u u k q p " u v c h h " f w t k p i " e x p a r t e " o g g v k p i u " c t g " f g g o g f " v q " d g " y t k w g p " e x p a r t e " r t g u g p v c k q p u " c p f " o w u v " d g " h n k g f " e q p u k u v g p v " y k v j " t w n g " 3 0 3 4 2 8 * d + 0 " " K p " r t q e g g f k p i u " i q x g t p g f " d { " t w n g " 3 0 6 ; * h + " q t " h q t " y j k e j " v j g " E q o o k u u k q p " j c u " o c f g " c x c k n c d n g " c " o g v j q f " q h " g n g e v t q p k e " h n k p i . " y t k w g p " e x p a r t e " r t g u g p v c k q p u " c p f " o g o q t c p f c " u w o o c t k | k p i "

6:8"See"7"W0U0E0"E"825*c+0"Kp"cf fkvkqp."vjg"Notice"cpf"THC"qt"uw o o ctkgu"vjgtgqh+"y knn"dg" rwdnku jgf"kp"vjg" Hgfgtcn" Tgi kuvgtl
6:9"See"7"W0U0E0"E"825*c+0"
6:; "69"EHT"E"303422*c+0"
6:; "69"EHT"E"303422"et seq."

qtcn"ex parte rtgugpvcvkqpu."cpf"cnncvcejo gpvu"vjgtgvq."o wuv"dg"hknfg"vj tqw i j "vjg"gngevtqpke"eq o o gpvu" hknkpi"u{ uvgo "cxckncdng"ht"vjcv"rtqeggfkipi."cpf"o wuv"dg"hknfg"kp"vjgkt"pcvkxg"ht o cv" *g0i0."0fge."0z o n."0r rv." ugcte jcdng"0r fh+0"Rctvkekr cpvu"kp"vjku"rtqeggfkipi"uj qwnf"hc o knkctk|g"vjg o ugnxgu"y kvj"vjg"Eq o o kuukqpou"ex parte twngu0"

3 ; :0A Comment Period and Filing Procedures. "Rwtuwcpv"vq"ugevkqpu"30637"cpf"3063 ; "qh"vjg" Eq o o kuukqpou"twngu."69"EHT"EE"30637."3063 ; . "kpvgtgugvf"rctvkgu"o c{ "hkngeq"o o gpvu"cpf"tgrn{"eq o o gpvu" qp"qt"dghgtg"vjg"fcvgu"kp fkecvgf"qp"vjg"hktuv"rc ig"qh"vjku"fqew o gpv0" Cnn"hknkpi u"o wuv"tghgt"vq"GV" Fqemgv" Pq0"3 ; /35 : 0"

EÁ Gngevtqpke"hkngtu<"Eq o o gpvu"o c{ "dg"hknfg"gngevtqpkecnn{ "wukpi"vjg"kpvgtpgv"d{ " ceeguukpi"vjg"Eq o o kuukqpou"Gngevtqpke"Eq o o gpvu"Hknkpi"U{ uvgo " *GEHU<" jvrucdllyy0heeliqx|gehu0"See Electronic Filing of Documents in Rulemaking Proceedings."85"HT"46343"*3 ; ; :+0"

EÁ Rcrgt"Hkngtu<"Rctvkgu"y j q"ejqqug"vq"hkngeq"o c{ "rcrgt"o wuv"hnkg"cp"qtki kpcn"cpf"ppg"eqr{ " qh"gej"hnkpi0"

- oÁ Hknkpi u"ecp"dg"ugpv"d{"eq o o gtekn"qxgtkpi j v"eqwtktg."qt"d{ "hktuv/encuu"qt" qxgtkpi j v"W0U0"Rquvcn"Ugtxkeg"o ckn0"Cnn"hknkpi u"o wuv"dg"cf f tguugf"vq"vjg" Eq o o kuukqpou"Ugetgvct{ ."Qhhkeg"qh"vjg"Ugetgvct{ ."Hgf gtcn"Eq o o wpkecvkqpu" Eq o o kuukqp0"
- oÁ Eq o o gtekn"qxgtkpi j v"o ckn"*qvjgt"vjcp"W0U0"Rquvcn"Ugtxkeg"Gzrtguu"Ockn"cpf" Rtkqtkv{ "Ockn+"o wuv"dg"ugpv"vq" ; 272"Lwpevkqp" Ftkxg."Cppecrqnu"Lwpevkqp."OF" 429230"
- oÁ W0U0"Rquvcn"Ugtxkeg"hktuv/encuu."Gzrtguu."cpf"Rtkqtkv{ "o ckn"o wuv"dg"cf f tguugf" vq"67"N"Uvtggv"PG." Ycu j kpi vqp."FE"427760"

EÁ Ghhgevkxg"Octe j"3 ; . "4242."cpf"wpvkn"hwvtjgt"pqvkeg."vjg"Eq o o kuukqp"pq"nqpi gt"ceegrvu" cp{ "jcpf"qt"o guugpi gt"fgnkxgtg"hnkpi u0"Vjku"ku"cvg o rqtct{ "o geuwtg"vcnmp"vq"jgnr" rtqvge"vjg"jgcnvj"cpf"uchgv{ "qh"kp f kxkfwcnu."cpf"vq"o kvki cvg"vjg"vtepu o kuukqp"qh" EQXKF/3 ; 0"See"HEE"Cppqwpegu"Enquwtg"qh"HEE" J gcf swctvgtu"Qrgp"Y kpfqy"cpf" E j cpi g"kp" J cpf/Fgnkxgt{ "Rqnke{ ."Rwdnke" Pqvkeg."FC"42/526"*Octe j"3 ; . "4242+0" jvrucdllyy0heeliqx|fqew o gpv|hee/enqugu/jgc f swctvgtu/qrgp/ykpfqy/cpf/ej cpi gu/ jcpf/fgnkxgt{/rqnke{0"

3 ; :0A Rgqrng"y kvj" Fkucdknkvgu<"Vq"tgs wugv"o cvgtkcnu"kp"ceeguukdng"ht o cvu"ht"rgqrng"y kvj" f kucdknkvgu" *dtcknng."ncti g"r tkpv."gngevtqpke"hnkgu."cwfkq"ht o cv+."ugpf"cp"g/ o ckn"vq"hee726B heeliqx"qt"ecnn" vjg"Eqpuw o gt" (" Iqxgtp o gpvcn"Chhcktu"Dwtgcw"cv"424/63 : /2752"*xqkeg+."424/63 : /2654"*vv{ +0"

4220A Cxckncdknkv{ "qh" Fqew o gpvu"Eq o o gpvu."tgrn{"eq o o gpvu."cpf"ex parte"uwd o kuukqpu"y knm" dg"rwdnke{ "cxckncdng"qpnkpg"xic"GEHU0722" Y jgp"vjg"HEE" J gcf swctvgtu"tgrrggu"vq"vjg"rwdnke."vjgug" fqew o gpvu"y knm"cnug"dg"cxckncdng"ht"rwdnke"kpurgvkkp"fwtkpi"tg i wnc"dwukpguu"j qwtu"kp"vjg"HEE" Tghgtgpeg"Egpgvt."Hgf gtcn"Eq o o wpkecvkqpu"Eq o o kuukqp."67"N"Uvtggv"PG." Ycu j kpi vqp."FE"427760"

4230A Further Information0 Hqt"hwvtjgt"kpht o cvkqp."eqpvcev" Lc o kg"Eqng o cp"qh"vjg"Qhhkeg"qh" Gpikpgtkpi"cpf"Vge j pqqi{ ."cv"424/63 : /4927"qt"lc o kg0eqng o cp B heeliqx0"

VI. ORDERING CLAUSES

4240A Ceeqtkpin{ . IT IS ORDERED"vjcv."rwtuwcpv"vq"vjg"cwvj qtkv{ "hqwpf"kp"ugevkqpu"3."6*k+." 523."524."525."52 ; . "538."cpf"554"qh"vjg"Eq o o wpkecvkqpu"Cev"qh"3 ; 56."cu"c o gpf gf."69"W0U0E0"EE"373." 376*k+."523."524."525."52 ; . "538."cpf"554."cpf"ugevkqp"30633"qh"vjg"Eq o o kuukqpou"Twngu."69"EHT"EE"30633."

722" Fqew o gpvu"y knm"i gpgtcnn{ "dg"cxckncdng"gngevtqpkecnn{ "kp" CUEKK."Oketquhv" Y qtf."cpf lqt" Cf qdg" Cet qdcv0"

vjcv"vjku"Hktuv"Trgrqtv"cpf"Qtfgt."Hwtvjgt"Pqvkeg"qh"Rtqrqugf"Twng o cmkpi."cpf"Qtfgt"qh"Rtqrqugf"
Oqfkhkecvkqp"KU"JGTGD["CFQRVGF"cpf."gzegevr"cu"qvjgt ykug"rtqxf"dgny."ku"ghhgevks"ukzv{"fc{"u"
htqo"vjg"fcvg"qh"rdnkecvkqp"qh"gcej"turgevks"eq o rppgp"kp"vjg"Hgfgtcn" Tg i kuvgt0"

4250A KV"KU"HWTVJGT"QTFGTGF"vjcv"vjg"Eq o gpvf o gpvu"qh"vjg"Eq o o kuukqpou"twngu"cu"ugv"hqtvj"
kp"Cr r gpfkz"CTG"CFQRVGF."ghhgevks"ukzv{"fc{"u"htqo"vjg"fcvg"qh"rdnkecvkqp"kp"vjg"Hgfgtcn" Tg i kuvgt."
ykvj"vjg"gzegrvkqp"qh"ugevkqp";20594."y jkej"eqpvckpu"pgy"qt" o qfkhkgf"kpht o cvkqp"eqmgevks"
tgsukt o gpvu"vjcv"tgsukt"tgxky"d{"vjg"Qhkeg"qh"Opcig o gpv"cpf"Dwf i gy"QOD+"wpfgt"vjg"Rcrgt y qtm"
Tgfwevkqp"Cev0"Vjg"Eq o o kuukqp"ftkgevu"vjg"Yktnguu"Vnggeq o o wpkecvkqp"Dwtgcw"vq"guvcdnkuj"cpf"
cppqwp"vjg"ghhgevks"fcvg"qh"ugevkqp";20594"kp"cf"fqew o gpv"rdnkujg"kp"vjg"Hgfgtcn" Tg i kuvgt"chvgt"vjg"
Eq o o kuukqp"tgekgxu"QOD"cr r txcn0"

4260A KV"KU"HWTVJGT"QTFGTGF"vjcv."rwtuwpv"vq"ugevkpu"52;"cpf"538"qh"vjg"
Eq o o wpkecvkqp"Cev"qh"3;56."cu"c o gpfgf."69"W0U0E0"E"52;"cpf"538."kp"vjku"Qtfgt"qh"Rtqrqugf"
Oqfkhkecvkqp."vjg"Eq o o kuukqp" o qfkhkgu"cm"KVU"nkegpugu"kp"vjg"70;" I J |"dcpf"rwtuwpv"vq"vjg"eqpfkvpku"
urgekkgf"kp"vjku"Hktuv"Trgrqtv"cpf"Qtfgt0"Urgekkecm{"vjg"Eq o o kuukqp" o qfkhkgu"vjg"nkegpugu"qh"cm" FUTE"
kpew o dgpvu"vq"fcf"cwvj qtk|cvkqp"vq"qrgtcvg"kp"vjg"70: ;7/70;47" I J |"dcpf"vq"cp{"TUW"tgi kuvtkvku"
ewtgpvn{"ncemkpi"cwvj qtkv{"vq"fq"uq0"Kp"cf"fkvqp."vjg"Eq o o kuukqp" yknn" o qfkh{"cm" FUTE"nkegpugu"vq"
rtqxf"vjcv"chvgt"vjg"gpv"qh"vjg"uwpugv"rgtkqf"vjgkt"cwvj qtk|cvkqp" yknn"dg"nk o kvgf"vq"vjg"70: ;7/70;47" I J |"
dcpf0"Vjgug" o qfkhkecvkqp" yknn"dg"ghhgevks"82"fc{"u"chvgt"rdnkecvkqp"qh"vjku"Qtfgt"qh"Rtqrqugf"
Oqfkhkecvkqp"kp"vjg"Hgfgtcn" Tg i kuvgt="rtqxf"gf."j qy gxgt."vjcv"kp"vjg"gxgpv"vjcv"cp{"KVU"nkegpugg."qt"cp{"
qvjgt"nkegpugg"qt"rgt o kvvgg" y j q"dgngxgu"vjcv"kvu"nkegpug"qt"rgt o kv" y qwn"dg" o qfkhkgf"d{"vjku"cevku."uggmu"
vq"rtqvuv"vjgug" o qfkhkecvkqp."uwej"nkegpug" o qfkhkecvkqp"urgekkgf"jgtgkp"cpf"eqpvguvgf"d{"vjg"nkegpugg"qt"
rgt o kvvgg"ujcnn"pqv"dg" o cfghkpcn"cu"vq"uwej"nkegpugg"qt"rgt o kvvgg"wpnguu"cpf"wpvkn"vjg"Eq o o kuukqp"qtfgtu"
qvjgt y kug0"Rwtuwpv"vq"ugevkqp"538*c+*3+"qh"vjg"Eq o o wpkecvkqp"Cev"qh"3;56."cu"c o gpfgf."69"W0U0E0"E"
538*c+*3+."rdnkecvkqp"qh"vjku"Qtfgt"qh"Rtqrqugf" Oqfkhkecvkqp"kp"vjg"Hgfgtcn" Tg i kuvgt"ujcnn"eqpvkvvg"
pqvkhkecvkqp"kp" y tkvki"qh"qwt"Qtfgt"rtqrquki"vjg" o qfkhkecvkqp"qh"vjg"KVU"nkegpugu."cpf"qh"vjg" i tqwfu"cpf"
tgcuppu"vjg"ghqg."cpf"vjg"qug"nkegpuggu"cpf"cp{"qvjgt"rctv{"uggmkpi"vq"hkng"c"rtqvuv"rwtuwpv"vq"ugevkqp"538"
ujcnn"jcxg"52"fc{"u"htqo"vjg"fcvg"qh"uwej"rdnkecvkqp"vq"rtqvuv"uwej"Qtfgt0"

4270A KV"KU"HWTVJGT"QTFGTGF"vjcv"vjg"Eq o o kuukqpou"Eqpuw o gt"cpf" I qxgtp o gpvcn"
Chhcktu"Dwtgcw."Tghgtpeg"kpht o cvkqp"Egpgvt."UJCNNUGPF" c"eqr {"qh"vjku"Hktuv"Trgrqtv"cpf"Qtfgt."
Hwtvjgt"Pqvkeg"qh"Rtqrqugf"Twng o cmkpi."cpf"Qtfgt"qh"Rtqrqugf" Oqfkhkecvkqp."kpenwfkpi"vjg"Kpkvkc"cpf"
Hkpcn" Tg i wncvt {"Hngzkdknkv {"Cpcn {ugu."vq"vjg"EjkgH"Eqwpugn"ht" Cfxqece {"qh"vjg"U o cmn"Dwukpguu"
Cf o kpluvtcvkqp0"

4280Á KV"KU"HWTVJGT"QTFGTGF"vjcv"vjg"Eqo o kuukqpøu"Eqpuw o gt"cpf" I qxgtp o gpvcn"
Chhcktu"Dwtgcw."Tghgtgpeg"Kphqt o cvkqp"Egpygt."U J CNN"UGPF"c"eqr {"qh"vjkv"Hktuv"Trgrqv"cpf"Qtfgt."
Hwtvjgt"Pqvkeg"qh"Rtqrqugf"Twng o cmkpi ."cpf"Qtfgt"qh"Rtqrqugf"Oqfkhkecvkqp."kpenw fkp i "vjg"Kpkvkn"cpf"
Hkpcn"Tg i wncvqt {"Hngzkdknkv {"Cpcn {uku."vq"Eqpi tguu"cpf"vjg" I qxgtp o gpv"Ceeqwpvcdknv {"Qhhkeg"rwtuwcpv"vq"
vjg"Eqpi tguukqpcn"Txkgy"Cev."see"7"W0U0E0"È":23*c+*3+*C+0"

"
" " " " " " HGFGTcn"EQOOWPKECVQPU"EQOOkUUKQP"
"
"
"
"
" " " " " " Octngpg"J0"Fqtvej"
" " " " " " Ugetgvct{"

APPENDIX A

Final Rules

Hqt"vjg"tgcupqu"ugv"htvj"kp"vjg"rtgc o dng."vjg"Hgfgtcn"Eq o o wpkecvkqpu"Eq o o kuukqp"co gpfu"rctv"4."rctv"37."rctv";2."cpf"rctv";7"qh"Vkvng"69"qh"vjg"Eqfg"qh"Hgfgtcn" Tgi wncvkqpu"cu"hqmqy u<

Part 2 – FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

Vjg"cwvjqtqv{"ekvcvkq"ht"rctv"4"eqvpkwgu"vq"tgc f"cu"hqmqy u<

Authority: 69"WOUE0"376."524c."525."cpf"558."wpnguu"qvjgt y kug"pqvgf0"

30A C o gpf"ugevkq"40328"d{"tgxkukpi "hqvpqvg" P I 382"vq"tgc f"cu"hqmqy u<

§ 2.106 Table of Frequency Allocations.

,"",",",",",",

P I 382""Kp"vjg"dcpf"7: ;7/7;47"O J |."vjg"wug"qh"vjg"ppq/hgfgtcn" o qdkng"ugtxkeg"ku"nk o kvgf"vq" qrgtcvkqpu"kp"vjg"Kpvgnki gpv"Vtcpu rqtvcvkq"U{ uvgo "tcfkq"ugtxkeg0"

,"",",",",",

Part 15 – Radio Frequency Devices

Vjg"cwvjqtqv{"ekvcvkq"ht"rctv"37"eqvpkwgu"vq"tgc f"cu"hqmqy u:"

Authority: "69"WOUE0"376."524c."525."526."529."558."766c."cpf"76;0"

40A C o gpf"ugevkq"370623"vq"tgc f"cu"hqmqy u<

§ 15.401 Scope.

Vjku"uwdrcvt"ugvu"qvv"vjg"tg i wncvkqpu"ht" Wpnkegpugf" Pcvkqpcn"Kphqt o cvkq"Kphtcvtwevwtg" *W/PKK+" fgxkegu"qrgtcvkpi"kp"vjg"7037/7057" I J |."7069/70: ;7" I J |"dcpf."cpf"70;47/90347" I J |"dcpf0"

50A C o gpf"ugevkq"370625"d{"tgxkukpi "vjg"fghkpvkqpu"ht"Kpfqqt"Ceeguu"Rqkv"cpf"W/PKK" fgxkegu"vq"tgc f"cu"hqmqy u<

§ 15.403 Definitions.

" ,",",",",",",

Indoor Access Point0"Hqt"vjg"rwtrqug"qh"vjku"uwdrcvt."cp"ceeguu"rqkv"vjcv"qrgtcvgu"kp"vjg"70:72/70: ;7" I J |" qt"vjg"70;47/90347" I J |"dcpf."ku"uwr rnkgef"rqygt"htq o "c" yktgf"eqppgevqkq."jcu"cp"kpvg i tcvgf"cpvgppc."ku" pqv"dcvgt{"rqygtgf."cpf"fqgu"pqv"jcxg"c" ygcvjgtk|gf"gpenuwtg0"Kpfqqt"ceeguu"rqkv"fgxkegu" o wuv"dgct" vjg"hqmqykp i "uvcvg o gpv"kp"c"eqpu rkewquw"nqecvkq"qp"vjg"fgxkeg"cpf"kp"vjg"wgut0u" o cpwcn<"HEE" tgi wncvkqpu"tguvtkev"qrgtcvkq"qh"vjku"fgxkeg"vq"kp fqqt" wug"qpn{0"

Subordinate Device. Hqt"vjg"rwtrqug"qh"vjku"uwdrcvt."c" fgxkeg"vjcv"qrgtcvgu"kp"vjg"70:72/70: ;7" I J |"dcpf" qt"kp"vjg"70;47/90347" I J |"dcpf"wpfgt"vjg"eqpvtn"qh"cp"Kpfqqt"Ceeguu"Rqkv."ku"uwr rnkgef"rqygt"htq o "c" yktgf"eqppgevqkq."jcu"cp"kpvg i tcvgf"cpvgppc."ku"pqv"dcvgt{"rqygtgf."fqgu"pqv"jcxg"c" ygcvjgtk|gf" gpenuwtg."cpf"fqgu"pqv"jcxg"c" fktgev"eqppgevqkq"vq"vjg"Kpvgtg0"Uwdqtfkpcvg"fgxkegu" o wuv"pqv"dg" wugf"vq" eqppgev"fgxkegu"dgvy ggp"ugrctcvg"dwkfkpi u"qt"uvtwevwtg0"Uwdqtfkpcvg"fgxkegu" o wuv"dg"cwvjqtqv"wpfgt" egtvkhkecvq"rtqegfwtgu"kp"rctv"4"qh"vjku"ejcrgt0"Oqfwngu" o c{"pqv"dg"egtvkhkgf"cu"uwdqtfkpcvg"fgxkegu0"

U-NII devices0"Kpvgpqpcn"tcfkcvqtu"qrgtcvkpi"kp"vjg"htgswgpe{"dcpf"7037/7057" I J |."70692/70: ;7" I J |." cpf"70;47/90347" I J |"vjcv" wug"y kfgdcpf"fkikcn" o qfwncvkq"vgejpkswgu"cpf"rtqxfg"c"y kfg"cttc{"qh"jki"j" fvc"tcvg" o qdkng"cpf"hkzgf"eq o o wpkecvkqpu"ht"kp fkkfwcnu."dwukpguugu."cpf"kpukvwvkqpu0"

60A C o gpf"ugevkq"370629"d{"tgxkukpi "rctci tcr ju" *c+*5+."tgrwdnku"jki" PQVG"VQ"RCTC I TCR J" *c+*5+."tgxkukpi" rctci tcr j" *c+*34+."tgxkukpi" rctci tcr j" *d+*6+."tgfukipcvkpi" rctci tcr ju" *d+*7+"vj tqwi j"

*d+*32+cu"rtci tcr ju"*d+*8+vjtqwi j"*d+*33+."cf fkp i"pgy"rtci tcr j"*d+*7+."cpf"tgxkukpi"rtci tcr j"*g+*vq" tgc f"cu"hqmqyuc<

§ 15.407 General technical requirements.

" , , , "

" *c+ , , , , "

" " *5+Hqt"vjg"dcpf"70947/70: ; 7" I J | "

*k+Hqt"vjg"dcpf"70947/70: 72" I J | . "vjg" o czk o w o "eqpfwevgf"qwwrvw"rqygt"qxgt"vjg" htgswgpe{ "dcpf"qh"qrgtcvkqp"ujcnn"pqv"gzeggf"3" Y0"Kp"cf fkvkqp."vjg" o czk o w o "rqygt"urgetcn" fgpuv{ "ujcnn"pqv"gzeggf"52" fD o "kp"cp{ "722/m J | "dcpf0"Kh"vtcpu o kvkpi "cpvgppcu"qh" fktgevkqpcn" i ckp" i tgcvtg"vjcp"8" fDk"ctg" wugf. "dqvj" "vjg" o czk o w o "eqpfwevgf"qwwrvw"rqygt"cpf"vjg" o czk o w o "rqygt"urgetcn" fgpuv{ "ujcnn"dg"tgfwegf" d{ "vjg" c o qwpv"kp" fD"vjcv"vjg" fktgevkqpcn" i ckp"qh"vjg" cpvgppc"gzeggfu"8" fDk0" J q y g x g t. "hkzgf" r q k p v / v q / r q k p v / W / P K K " f g x k e g u " q r g t c v k p i " k p " v j k u " d c p f " o c { " g o r n q { " v t c p u o k v k p i " c p v g p p c u " y k v j " f k t g e v k q p c n " i c k p " i t g c v t g " v j c p " 8 " f D k " y k v j q w v " c p { " e q t g u r q p f k p i " t g f w e v k q p " k p " v t c p u o k v g t " e q p f w e v g f " r q y g t 0 " " H k z g f . " r q k p v / v q / r q k p v " q r g t c v k q p u " g z e n w f g " v j g " w u g " q h " r q k p v / v q / o w n k r q k p v " u { u v g o u . " q o p k f k t g e v k q p c n " c r n k e c v k q u . " c p f " o w n k r n g " e q m q e c v g f " v t c p u o k v g t u " v t c p u o k v k p i " v j g " u c o g " k p h q t o c v k q p 0 " " V j g " q r g t e v t " q h " v j g " W / P K K " f g x k e g . " q t " k h " v j g " g s w k r o g p v " k u " r t q h u u k q p c n n { " k p u v c m n g f . " v j g " k p u v c m n g t . " k u " t g u r q p u k d n g " h q t " g p u w t k p i " v j c v " u { u v g o u " g o r n q { k p i " j k i j " i c k p " f k t g e v k q p c n " c p v g p p c u " c t g " w u g f " g z e n w u k x g n { " h q t " h k z g f . " r q k p v / v q / r q k p v " q r g t c v k q p u 0 "

*kk+Hqt"cp"kp fqqt"ceeguu"rqkpv"qrgtcvkpi"kp"vjg"70: 72/70: ; 7" I J | "dcpf."vjg" o czk o w o "rqygt"urgetcn" fgpuv{ " o w u v " p q v " g z e g g f " 4 2 " f D o " g 0 k 0 t 0 r 0 " k p " c p { " 3 / o g i c j g t v | " d c p f 0 " K p " c f f k v k q p . " v j g " o c z k o w o " g 0 k 0 t 0 r 0 " q x g t " v j g " h t g s w g p e { " d c p f " q h " q r g t c v k q p " o w u v " p q v " g z e g g f " 5 8 " f D o 0 " K p f q q t " c e e g u u " r q k p v " q r g t c v k p i " q p " c " e j c p p g n " v j c v " u r c p u " v j g " 7 0 9 4 7 / 7 0 : 7 2 " I J | " c p f " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f u " o w u v " p q v " g z e g g f " c p " g 0 k 0 t 0 r 0 " q h " 5 8 " f D o 0 "

*kkk+Hqt"enkpv"fgxkegu"qrgtcvkpi"wpfgt"vjg"eqpvtqn"qh"cp"kp fqqt"ceeguu"rqkpv"kp"vjg"70: 72/ 70: ; 7" I J | "dcpf."vjg" o czk o w o "rqygt"urgetcn" fgpuv{ " o w u v " p q v " g z e g g f " 3 6 " f D o " g 0 k 0 t 0 r 0 " k p " c p { " 3 / o g i c j g t v | " d c p f . " c p f " v j g " o c z k o w o " g 0 k 0 t 0 r 0 " q x g t " v j g " h t g s w g p e { " d c p f " q h " q r g t c v k q p " o w u v " p q v " g z e g g f " 5 2 " f D o 0 " E n k p v " f g x k e g u " q r g t c v k p i " q p " c " e j c p p g n " v j c v " u r c p u " v j g " 7 0 9 4 7 / 7 0 : 7 2 " I J | " c p f " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f u " o w u v " p q v " g z e g g f " c p " g 0 k 0 t 0 r 0 " q h " 5 2 " f D o 0 "

*kx+Hqt"cu"wdqtfkpcvg"fgxkegu"qrgtcvkpi"wpfgt"vjg"eqpvtqn"qh"cp"kp fqqt"ceeguu"rqkpv"kp"vjg"70: 72/70: ; 7" I J | "dcpf."vjg" o czk o w o "rqygt"urgetcn" fgpuv{ " o w u v " p q v " g z e g g f " 4 2 " f D o " g 0 k 0 t 0 r 0 " k p " c p { " 3 / o g i c j g t v | " d c p f . " c p f " v j g " o c z k o w o " g 0 k 0 t 0 r 0 " q x g t " v j g " h t g s w g p e { " d c p f " q h " q r g t c v k q p " o w u v " p q v " g z e g g f " 5 8 " f D o 0 "

*x+Kp"vjg"70: 72/70: ; 7" I J | "dcpf."enkpv"fgxkegu" o w u v " q r g t c v g " w p f g t " v j g " e q p v t q n " q h " c p " k p f q q t " c e e g u u " r q k p v " k p " v j g " k p f q q t " c e e g u u " r q k p v 0 " K p " c m " e c u g u . " c p " g z e g r v k q p " g z k u v " h q t " v t c p u o k v k p i " d t k g h " o g u u c i g u " v q " c p " c e e g u u " r q k p v " y j g p " c v g o r v k p i " v q " l q k p " k v u " p g v " y q t m " c h v g t " f g v g e v k p i " c " u k i " p c n " v j c v " e q p h k t o u " v j c v " c p " c e e g u u " r q k p v " k u " q r g t c v k p i " q p " c " r c t v k e w n c t " e j c p p g n 0 " C e e g u u " r q k p v " o c { " e q p p g e v " v q " q v j g t " c e e g u u " r q k p v 0 " E n k p v " f g x k e g u " c t g " r t q j k d k v g f " h t q o " e q p p g e v k p i " f k t g e v n { " v q " c p q v j g t " e n k p v " f g x k e g 0 "

" , , , , , "

*34+Rqygt"urgetcn" fgpuv{ " o g c u w t g o g p v 0 " V j g " o c z k o w o " r q y g t " u r g e t c n " f g p u v { " k u " o g c u w t g f " c u " c " e q p f w e v g f " g o k u u k q p " d { " f k t g e v " e q p p g e v k q p " q h " c " e c n k d t c v g f " v g u v " k p u v t w o g p v " v q " v j g " g s w k r o g p v " w p f g t " v g u 0 " " K h " v j g " f g x k e g " e c p p q " d g " e q p p g e v g f " f k t g e v n { . " c n v g t p c v k x g " v g e j p k s w g u " c e e g r v c d n g " v q " v j g " E q o o k u u k q p " o c { " d g " w u g f 0 " O g c u w t g o g p v " k p " v j g " 7 0 9 4 7 / 7 0 : ; 7 " I J | " d c p f " c t g " o c f g " q x g t " c " t g h g t g p e g " d c p f y k f v j " q h " 7 2 2 " m J | " q t " v j g " 4 8 " f D " g o k u u k q p " d c p f y k f v j " q h " v j g " f g x k e g . " y j k e j g x g t " k u " n g u u 0 " O g c u w t g o g p v " k p " c m n " q v j g t " d c p f u " c t g " o c f g " q x g t " c " d c p f y k f v j " q h " 3 " O J | " q t " v j g " 4 8 " f D " g o k u u k q p " d c p f y k f v j " q h " v j g " f g x k e g . " y j k e j g x g t " k u " n g u u 0 " C " p c t t y g t " t g u q n w k q p " d c p f y k f v j " e c p " d g " w u g f . " r t q x k f g f " v j c v " v j g " o g c u w t g f " r q y g t " k u " k p v g i t c v g f " q x g t " v j g " h w m " t g h g t g p e g " d c p f y k f v j 0 "

" , , , , , "

*d+*6+Hqt"vtcpu o kvvgtu"qrgtcvki "uqngn{"kp"vjg"70947/70: 72" I J |"dcpf0"

" *k+", ", ", "

" *kk+", ", ", "

*d+*7+Hqt"vtcpu o kvvgtu"qrgtcvki "uqngn{"kp"vjg"70: 72/70: ; 7" I J |"dcpf"qt"qrgtcvki"qp"cejcpggn"vjcv"urcpu" cetquu"70947/70: ; 7" I J |<

*k+Hqt"cp"kpfaqqt"ceeguu"rqkpv"qt"uwdqtfkpcvg"fgxkeg."cnn"g o kuukqpu"cv"qt"cdqyg"70: ; 7" I J |"ujcnn" pqv"gzeggf"cp"g0k0t0r0"qh"37" fD o l O J |"cpf"ujcnn"fgctgcug"nkpctn{"vq"cp"g0k0t0r0"qh"/9" fD o l O J |"cv"qt"cdqyg" 70; 47" I J |0"

*kk+Hqt"c"enkpv"fgxkeg."cnn"g o kuukqpu"cv"qt"cdqyg"70: ; 7" I J |"ujcnn"pqv"gzeggf"cp"g0k0t0r0"qh"/7" fD o l O J |"cpf"ujcnn"fgctgcug"nkpctn{"vq"cp"g0k0t0r0"qh"/49" fD o l O J |"cv"qt"cdqyg"70; 47" I J |0"

*kkk+Hqt"c"enkpv"fgxkeg"qt"kpfaqqt"ceeguu"rqkpv"qt"uwdqtfkpcvg"fgxkeg."cnn"g o kuukqpu"dgnqy"70947" I J |"ujcnn"pqv"gzeggf"cp"g0k0t0r0"qh" 49" fD o l O J |"cv"7087" I J |"kpetgcukpi"nkpctn{"vq"32" fD o l O J |"cv"709" I J |."cpf"htq o"709" I J |"kpetgcukpi"nkpctn{"vq"c"ngxgn"qh"3708" fD o l O J |"cv"7094" I J |."cpf"htq o"7094" I J |" kpetgcukpi"nkpctn{"vq"c"ngxgn"qh"49" fD o l O J |"cv"70947" I J |0"

", , , , , "

*g+Y kvj"kp"vjg"70947/70: 72" I J |"cpf"70: 72/70: ; 7" I J |"dcpfu."vjg"okpkow o"8" fD" dcpf ykfvj"qh"W/ PKK" fgxkegu"ujcnn"dg"cv"ngcu"722"m J |0"

", , , , , "

Part 90 – PRIVATE LAND MOBILE RADIO SERVICES

Vjg"cwvjqtkv{"ekvcvqp"hqt"rctv"; 2"eqpvkpwgu"vq"tgcf"cu"hqnnqy u<

Authority:"69"W0U0E0"376*k+. "383."525*i+. "525*t+. "554*e+*9+. "3623/36950"

70A C o gpf"uwdrcvtv"O"vq"vjg"Vcdng"qh"Eqvypvu"qh"rctv"; 2"d{"tgxkukpi"vjg"uwdjgc fkp i"chyt" ugevqkq"; 20587"cpf"cf"ugevqkq"; 20592"cpf"ugevqkq"; 20594"vq"tgcf"cu"hqnnqy u<

Subpart M – Intelligent Transportation Systems Radio Service

" , , , , , "

Tg i wncvqpu" I qxgtpkpi"vjg"Nkegpukpi"cpf"Wug"qh"Htgs wpgpeku"kp"vjg"7: ; 7/7; 47" O J |"Dcpf"hqt" Fg fkecvgf" Ujqtv/Tcpi g"Eq o o wplcvkqpu"Ugtxkeg"*FUTEU+0"

" , , , , , "

§ 90.370 Permitted Frequencies.

" , , , , , "

§ 90.372 DSRCs Notification Requirement.

" , , , , , "

"

Subpart B—PUBLIC SAFETY RADIO POOL "

80A C o gpf"ugevqkq"; 2042"d{"tgxkukpi"vjg"vcdng"kp"rctci tcr j"*e+*5+"vq"tgcf"cu"hqnnqy u<

Ikpuvtv"rwdnke"uchgv{"rqqn"htgs wpgpe{"vcdng"o"tgxkug"htgs wpgpe{"vq"tgcf"7: ; 7/7; 47_"

Subpart C—INDUSTRIAL/BUSINESS RADIO POOL "

90A C o gpf"ugevqkq"; 2057"d{"tgxkukpi"vjg"vcdng"kp"rctci tcr j"*d+*5+"vq"tgcf"cu"hqnnqy u<

Ikpuvtv"kpfwvtkcaldwukpguu"rqqn"htgs wpgpe{"vcdng"o"tgxkug"htgs wpgpe{"vq"tgcf"7: ; 7/7; 47_"

Subpart G—APPLICATIONS AND AUTHORIZATIONS

:0A C o g p f " u g e v k q p " ; 2036 ; d { " t g x k u k p i " r e t c i t e r j " * d + " v q " t g c f " c u " h q m n q y u <

§ 90.149 License term.

" , , , , , "

*d+ " P q p / g z e n w u k x g " i g q i t e r j k e ' c t g c " n k e g p u g u " h q t " F U T E U " T q c f u k f g " W p k v u " * T U W u + " w p f g t " u w d r c t v " O " q h " v j k u " r c t v " k p " v j g " 7 : ; 7 / 7 ; 4 7 " O J | " d c p f " y k n n ' d g " k u u w g f " h q t " c ' v g t o " p q v " v q " g z e g g f " v g p " { g c t u " h t q o " v j g " f c v g " q h " q t k i k p c n " k u u w c p e g " q t " t g p g y c n 0 " " V j g " t g i k u v t c v k q p " f c v g u " q h " k p f k x k f w c n " T U W u " * u g g " E " ; 20597+ " y k n n " p q " e j c p i g " v j g " q x g t c m n " t g p g y c n " r g t k q f " q h " v j g " u k p i n g " n k e g p u g 0 " "

:0A C o g p f " u g e v k q p " ; 20377 " d { " t g x k u k p i " r e t c i t e r j " * k + " v q " t g c f " c u " h q m n q y u <

§ 90.155 Time in which station must be placed in operation.

" , , , , , "

*k+ " F U T E U " T q c f u k f g " W p k v u " * T U W u + " w p f g t " u w d r c t v " O " q h " v j k u " r c t v " k p " v j g " 7 : ; 7 / 7 ; 4 7 " O J | " d c p f " o w u v " d g " r n c e g f " k p " q r g t c v k q p " y k v j k p " 3 4 " o q p v j u " h t q o " v j g " g h h g e v k x g " f c v g " q h " t g i k u v t c v k q p " * u g g " E " ; 20597+ " q t " v j g " c w v j q t k v { " v q " q r g t c v g " v j g " T U W u " e c p e g n u " c w v q o c v k e c m n { " * u g g " E " 30 ; 7 7 " q h " v j k u " e j c r v g t + 0 " " U w e j " t g i k u v t c v k q p " f c v g * u + " f q " p q v " e j c p i g " v j g " q x g t c m n " t g p g y c n " r g t k q f " q h " v j g " u k p i n g " n k e g p u g 0 " " N k e g p u g g u " o w u v " p q v k h { " v j g " E q o o k u u k q p " k p " c e e q t f c p e g " y k v j " E " 30 ; 6 8 " q h " v j k u " e j c r v g t " y j g p " t g i k u v g t g f " w p k v u " c t g " r n c e g f " k p " q r g t c v k q p " y k v j k p " v j g k t " e q p u v t w e v k q p " r g t k q f 0 " "

Subpart H—POLICIES GOVERNING THE ASSIGNMENT OF FREQUENCIES

320A C o g p f " u g e v k q p " ; 20397 " d { " t g x k u k p i " r e t c i t e r j " * 1 + * 3 8 + " v q " t g c f " c u " h q m n q y u <

§ 90.175 Frequency coordinator requirements.

" , , , , , "

*1+ " , , , "

*38+ " C r r n k e c v k q p u " h q t " F U T E U " n k e g p u g u " * c u " y g n n " c u " t g i k u v t c v k q p u " h q t " T q c f u k f g " W p k v u + " w p f g t " u w d r c t v " O " q h " v j k u " r c t v " k p " v j g " 7 : ; 7 / 7 ; 4 7 " I J | " d c p f 0 "

" , , , , , "

Subpart I—GENERAL TECHNICAL STANDARDS

330A C o g p f " u g e v k q p " ; 20425 " d { " t g f g u k i p c v k p i " r e t c i t e r j " * c + * 4 + " c u " r e t c i t e r j " * c + * 5 + " c p f " c f f k p i " p g y " r e t c i t e r j " * c + * 4 + 0 " "

§ 90.203 Certification Required.

" , , , , , "

*4+ " G h h g e v k x g " J k p u g t v " f c v g " q h " F U T E " u w p u g v . " c p " g s w k r o g p v " c r r t q x c n " o c { " p q " n q p i g t " d g " q d v c k p g f " h q t " F U T E U " g s w k r o g p v " * T U W u " c p f " Q D W u + " q r g t c v k p i " w p f g t " v j g " r t q x k u k q p u " q h " v j k u " r c t v 0 "

340A C o g p f " u g e v k q p " ; 20427 " d { " t g x k u k p i " r e t c i t e r j " * s + " v q " t g c f " c u " h q m n q y u <

§ 90.205 Power and antenna height limits.

" , , , , , "

*s+ " 7 : ; 7 / 7 ; 4 7 " O J | 0 " " R q y g t " c p f " j g k i j v " n k o k v c k q p u " c t g " u r g e k h k g f " k p " u w d r c t v " O " q h " v j k u " r c t v 0 "

" , , , , , "

350A C o g p f " u g e v k q p " ; 20432 " d { " t g x k u k p i " v j g " g p v t { " h q t " 7 : 7 2 / 7 ; 4 7 " k p " v j g " v c d n g " c p f " h q q p p q v g " 6 " q h " v j g " v c d n g " v q " t g c f " c u " h q m n q y u <

§ 90.210 Emission masks.

" , , , , , "

Applicable Emission Masks Frequency band (MHz)	Mask for equipment with audio low pass filter	Mask for equipment without audio low pass filter
, , , , , "	, , , , , "	, , , , , "
7 : ; 7/7 ; 47 ⁶ "	"	"
, , , , , "	, , , , , "	, , , , , "

⁶FUTEU" Tqc fukfg" Wpkvu" kp" vjg" 70 : ; 7/70 ; 47" I J | " dcpf" ctg" i qxgtpgf" wpfgt" uwdrcvtv" O" qh" vjku" rctv0"

" , , , , , "

360^A C o gpf" ugevqkq" ; 20435" d { " t g x k u k p i " h q q v p q v " 32" q h " v j g " v c d n g " k p " r c t e i t e r j " * c + " v q " t g c f " c u " h q m n q y u < "

§ 90.213 Frequency stability.

*c+ , , , , "

³²Htgs w g p e { " u v c d k n k v { " h q t " F U T E U " g s w k r o g p v " k p " v j g " 7 : ; 7/7 ; 47" O J | " d c p f " k u " u r g e k h k g f " k p " u w d r c t v " O " q h " v j k u " r c t v 0 " H q t " c m n " q v j g t " g s w k r o g p v . " h t g s w g p e { " u v c d k n k v { " k u " v q " d g " u r g e k h k g f " k p " v j g " u v c v k q p " c w v j q t k | c v k q p 0 "

" , , , , , "

SUBPART M—INTELLIGENT TRANSPORTATION SYSTEMS RADIO SERVICE

370^A C o g p f " u w d r c t v " O " v q " v j g " V c d n g " q h " E q p v g p v u " q h " r c t v " ; 2" d { " o q f k h { k p i " v j g " u w d j g c f k p i " c h v g t " u g e v k q p " ; 20587" v q " t g c f " c u " h q m n q y u < "

T g i w n c v k q p u " I q x g t p k p i " v j g " N k e g p u k p i " c p f " W u g " q h " H t g s w g p e k u " k p " v j g " 7 : ; 7/7 ; 47" O J | " D c p f " h q t " F g f k e c v g f " U j q t v / T c p i g " E q o o w p k e c v k q p u " U g t x k e g " * F U T E U + "

" , , , , , "

380^A C o g p f " u w d r c t v " O " d { " c f f k p i " u g e v k q p " ; 20592" v q " t g c f " c u " h q m n q y u < "

§ 90.370 Permitted frequencies.

*c+ " F g f k e c v g f " U j q t v / T c p i g " E q o o w p k e c v k q p u " U g t x k e g " * F U T E U + " u { u v g o u " c t g " r g t o k v g f " v q " q r g t c v g " k p " v j g " 7 : ; 7/7 ; 47" O J | " d c p f 0 "

*d+ " F U T E U " c w v j q t k | c v k q p u " i t c p v g f " r t k q t " v q " v j g "] k p u g t v " T (Q " g h h g e v k x g " f c v g _ " o c { " t g o c k p " q p " g z k u v k p i " h t g s w g p e k u " k p " v j g " 7 : 72/7 : ; 7" O J | " d c p f " w p v k n "] k p u g t v " f c v g " p p g " { g c t " c h v g t " T (Q " g h h g e v k x g " f c v g _ . " c v " y j k e j " v k o g " v j g { " o c { " q p n { " q r g t c v g " k p " v j g " 7 : ; 7/7 ; 47" O J | " d c p f 0 "

*e+ " H t g s w g p e k u " k p " v j g " 7 : ; 7/7 ; 47" O J | " d c p f " y k m " p q v " d g " c u u k i p g f " h q t " v j g " g z e n w u k x g " w u g " q h " c p { " n k e g p u g g = " E j c p p g n u " c t g " c x c k n c d n g " q p " c " u j c t g f " d c u k u " q p n { " h q t " w u g " k p " c e e q t f c p e g " y k v j " v j g " E q o o k u u k q p " u " t w n g u 0 " C m n " n k e g p u g g u " u j c m n " e q q r g t c v g " k p " v j g " u g n g e v k q p " c p f " w u g " q h " e j c p p g n u " k p " q t f g t " v q " t g f w e g " k p v g t h g t p e g 0 " " V j k u " k p e n w f g u " o q p k v t k p i " h q t " e q o o w p k e c v k q p u " k p " r t q i " t g u u " c p f " c p { " q v j g t " o g c u w t g u " c u " o c { " d g " p g e g u u c t { " v q " o k p k o k | g " k p v g t h g t p e g 0 "

*f+ " N k e g p u g g u " q h " T q c f u k f g " W p k v u " * T U W u + " u w h h g t k p i " q t " e c w u k p i " j c t o h w n " k p v g t h g t p e g " y k v j k p " c " e q o o w p k e c v k q p u | q p g . " c u " f g h k p g f " k p " u g e v k q p " ; 20597" q h " v j k u " r c t v . " c t g " g z r g e v g f " v q " e q q r g t c v g " c p f " t g u q n x g " v j k u " r t q d n g o " d { " o w w c m n { " u v c u h c e v q t { " c t t c p i g o g p v u 0 " " K h " v j g " n k e g p u g g u " c t g " w p c d n g " v q " f q " u q . " v j g " E q o o k u u k q p " o c { " k o r q u g " t g u v t k e v k q p u " k p e n w f k p i " u r g e k h { k p i " v j g " v t c p u o k v g t " r q y g t . " c p v g p p c " j g k i j v " c p f " f k t g e v k q p . " c f f k v k q p c n " h k n v g t k p i . " q t " c t g c " q t " j q w t u " q h " q r g t c v k q p " q h " v j g " u v c v k q p u " e q p e g t p g f 0 " " V j g " w u g " q h " c p { " e j c p p g n " c v " c " i k x g p " i g q i t e r j k e c n " n q e c v k q p " o c { " d g " f g p k g f " y j g p . " k p " v j g " l w f i o g p v " q h " v j g " E q o o k u u k q p . " k v u " w u g " c v " v j c v n " n q e c v k q p " k u " p q v " k p " v j g " r w d n k e " k p v g t g u v = " w u g " q h " c p { " u w e j " e j c p p g n " o c { " d g " t g u v t k e v g f " c u " v q " u r g e k h k g f " i g q i t e r j k e c n " c t g c u . " o c z k o w o " r q y g t . " q t " u w e j " q v j g t " q r g t c v k p i " e q p f k v k q p u . " e q p c k p g f " k p " v j k u " r c t v " q t " k p " v j g " u v c v k q p " c w v j q t k | c v k q p 0 "

3904 C o g p f " u g e v k q p " ; 20593 " d { " t g x k u k p i " r t c i t e r j " * d + " c p f " * e + " v q " t g c f " c u " h q m n q y u k "

§ 90.371 Dedicated Short Range Communications Service.

" , , , , , "

*d+ " F U T E U " T q c f u k f g " W p k v u " * T U W u + " q r g t c v k p i " k p " v j g " d c p f " 7 : 72 / 7 ; 47 " O J | " u j c n n " p q v " t g e g k x g " r t q v g e v k q p " h t q o " I q x g t p o g p v " T c f k q n q e c v k q p " u g t x k e g u " k p " q r g t c v k q p " r t k q t " v q " v j g " g u v c d n k u j o g p v " q h " v j g " F U T E U " u v c v k q p 0 " Q r g t c v k q p " q h " F U T E U " T U W " u v c v k q p u " y k v j k p " v j g " t c f k w u " e g p v g t g f " q p " v j g " n q e c v k q p u " n k u v g f " k p " v j g " v c d n g " d g n q y " o w u v " d g " e q q t f k p c v g f " v j t q w i j " v j g " P c v k q p c n " V g n g e q o o w p k e c v k q p u " c p f " k p h q t o c v k q p " C f o k p k u v t c v k q p 0 "

Location	Latitude DD-MM-SS North	Longitude DD-MM-SS West	Coordination Zone Radius (km)
Cpenqvg."Hnqtfc"	4:/33/3:"	:4/69/62"	67"
Ecrq"Ecpexgten."Hnqtfc"	4:/4:/76"	:2/56/57"	69"
Ecrq"Ucp"Dncu."Hnqtfc"	4;/62/53"	:7/42/6:"	69"
Ectcdgmg"Hkgnf."Hnqtfc"	4;/72/5:"	:6/5;/68"	58"
Ejctnguvqp."Uqvwj"Ectqnpk"	54/73/6:"	9;/79/6:"	38"
Gfyctfu."Ecnkhqtpk"	56/78/65"	339/76/72"	75"
Ginkp."Hnqtfc"	52/59/73"	:8/46/38"	325"
Hqtv"Ycnvqp"Dgcej."Hnqtfc"	52/46/75"	:8/5;/7:"	63"
Mgppgf{"Urceg"Egpgt."Hnqtfc"	4:/47/4;"	:2/5;/73"	69"
Mg{"Yguv."Hnqtfc"	46/55/2;"	:3/6;/4:"	34"
Mktvncpf"CHD."Pgy"Ogzkeq"	56/7;/73"	328/4:/76"	37"
Mqmggrctm."Jcyck"	44/29/57"	37;/62/28"	7"
OceFkn."Hnqtfc"	49/72/59"	:4/52/26"	69"
PX"Vguv"Vtckkpi"Tcpig."Pgxfc"	59/3:/49"	338/32/46"	3:8"
Rcwzgpv"Txgt."Oct{ncpf"	5:/38/77"	98/47/34"	8"
Rgetn"Jctdt."Jcyck"	43/43/39"	379/79/73"	38"
Rkmet"Rqkp."Ecnkhqtpk"	59/4;/74"	344/4;/7;"	58"
Rqmg"Hncv."Cncumc"	87/29/58"	369/4;/43"	35"
Rqtv"Ecpexgten."Hnqtfc"	4:/46/64"	:2/58/39"	3;"
Rqtv"Jwpgog."Ecnkhqtpk"	56/2:/82"	33;/34/46"	46"
Rqkp"Owiw."Ecnkhqtpk"	56/29/39"	33;/2;/3"	3:"
Ucfngdwpej"Mgu."Hnqtfc"	46/5:/73"	:3/58/44"	4;"
Ucp"FKgiq."Ecnkhqtpk"	54/65/22"	339/33/22"	33"
Ucp"Pkeqncu"Kuncpf."	55/36/69"	33;/53/29"	3;7"
Vqpqrj"Vguv"Tcpig."	59/66/22"	338/65/22"	4"
Xcpfgpdgti."Ecnkhqtpk"	56/56/7:"	342/55/64"	77"
Xgpkqg."Hnqtfc"	49/26/59"	:4/49/25"	72"
Ycmqrq"Kuncpf."Xtkikpk"	59/73/45"	97/52/63"	6:"
Yjkg"Ucpfu"Okukng"	54/7:/48"	328/45/65"	37:"
[woc."Ctk qpc"	54/76/25"	336/45/32"	4"

*e+ " P V K C " o c { " c w v j q t k | g " c f f k v k q p c n " u v c v k q p " c u u k i p o g p v u " k p " v j g " h g f g t e n " t c f k q n q e c v k q p " u g t x k e g " c p f " o c { " c o g p f . " o q f k h { . " q t " t g x q m g " g z k u v k p i " q t " c f f k v k q p c n " c u u k i p o g p v u " h q t " u w e j " u g t x k e g 0 " Q p e g " c " h g f g t e n " c u u k i p o g p v " c e v k q p " k u " v c m g p . " v j g " E q o o k u u k q p 0 u " W p x g t u c n " N k e g p u k p i " U { u v g o " f c v c d c u g " y k m " d g " w r f c v g f " c e e q t f k p i n { " c p f " v j g " n k u v " k p " r t c i t e r j " * d + " q h " v j k u " u g e v k q p " y k m " d g " w r f c v g f " c u " u q q p " c u " r t c e v k e c d n g 0 "

3:04 C o g p f " u w d r c t v " O " d { " c f f k p i " u g e v k q p " ; 20594 " v q " t g c f " c u " h q m n q y u < "

§ 90.372 DSRCS Notification Requirement.

*c+"FUTEU"nkegpuggu"cwvjqtg|gf"rwtuwcpv"vq";20592*d+"o wuv"pqvkh{"vjg"Eq o o kuukqp"vjcv"cu"qh"vjg" vtcupkvkqp"fgcfkpg"qh"jkgpugt"uwpugv"fcvg_."vjg{"jcxg"egcugf"qrgtcvki"kp"vjg"70:72/70:;7" I J | " r q t v k q p " q h " v j g " d c p f 0 " V j k u " p q v k h k e c v k q p " o w u v " d g " h k n g f " x k c " W N U " y k v j k p " 3 7 " f c { u " q h " v j g " g z r k t c v k q p " q h " v j g " v t c p u k v k q p " f g c f n k p g 0 "

*d+"Eqpvkpwgf"qrgtcvki"kp"vjg"70:72/70:;7" I J | " r q t v k q p " q h " v j g " d c p f " c h v g t " v j g " v t c p u k v k q p " f g c f n k p g . " y k n n " t g u w n v " k p " c w v q o c v k e " v g t o k p c v k q p " q h " v j c v " n k e g p u g g u " c w v j q t k | c v k q p " y k v j q w v " u r g e k h k e " E q o o k u u k q p " c e v k q p 0 "

3:04 C o g p f " u g e v k q p " ; 20597 " d { " t g x k u k p i " r e t c i t e r j " * c + " c p f " r e t c i t e r j " * e + " v q " t g c f " c u " h q m n q y u < "

§ 90.375 RSU license areas, communication zones, and registrations

*c+"Tqcfukfg"Wpkvu"*TUWu+"kp"vjg"7:;7/7;47"O J | " d c p f " c t g " n k e g p u g f " q p " v j g " d c u k u " q h " p q p / g z e n w u k x g " i g q i t e r j k e " c t g c u 0 " " I q x g t p o g p v c n " e r n k e c p v u " y k n n " d g " k u u w g f " c " i g q i t e r j k e " c t g c " n k e g p u g " d c u g f " q p " v j g " i g q / r q n k v e c n " c t g c " g p e q o r c u u k p i " v j g " n g i c n " l w t k u f k e v k q p " q h " v j g " g p v k v { 0 " " C n n " q v j g t " e r n k e c p v u " y k n n " d g " k u u w g f " c " i g q i t e r j k e " c t g c " n k e g p u g " h q t " v j g t " r t q r q u g f " c t g c " q h " q r g t c v k q p " d c u g f " q p " e q w p v { * u + . " u v c v g * u + " q t " p c v k q p y k f g 0 "

" , , , , , " *e+"Nkegpuggu"o wuv"qrgtcvg"gej" TUW "kp"ceeqtfcpeg"ykvj"vjg"Eq o o kuukqp"u"twngu"cpf"vjg"tgi k u v t c v k q p " f c v c " r q u v g f " q p " v j g " W N U " h q t " u w e j " T U W 0 " " N k e g p u g g u " o w u v " t g i k u v g t " g e j " T U W " h q t " v j g " u o c m n g u v " e q o o w p k e c v k q p " | q p g " p g g f g f " h q t " v j g " k p v g n k i g p v " v t c p u r q t v c v k q p " u { u v g o u " c r n k e c v k q p " w u k p i " q p g " q h " v j g " h q m n q y k p i " h q w t " e q o o w p k e c v k q p " | q p g u < "

TUW"encuu"	Oczk o w o " q w v r w v " r q y g t " * f D o + 3 "	Eq o o w p k e c v k q p u " q p g " * o g v g t u + "
C"	2"	37"
D"	32"	322"
E"	42"	622"
F"	4:0:"	3222"

3"Cu"fguetkdgf"kp"vjg"KGGG":24033r/4232"*kpeqtrqtcvgf"d{"tghgtgpeg."ugg"E";2059;+0"

2404 C o g p f " u g e v k q p " ; 2059 ; " v q " t g c f " c u " h q m n q y u < "

§ 90.379 Technical standards for Roadside Units

*c+"FUTEU"Tqcfukfg"Wpkvu"*TUWu+"qrgtcvki"kp"vjg"7:;7/7;27"O J | " d c p f " o w u v " e q o r n { " y k v j " v j g " v g e j p k e c n " u v c p f c t f " K p u v k v w v g " q h " G n g e v t k e c n " c p f " G n g e v t q p k e u " G p i k p g g t u " * K G G G + " : 24033r/42320"

*d+"Vjg"uvcpfctfu"tgswtg"kp"vjku"ugevkqp"ctg"kpeqtrqtcvgf"d{"tghgtgpeg"kpqv"vjku"ugevkqp"ykvj"vjg"cr r t q x c n " q h " v j g " F k t g e v q t " q h " v j g " H g f g t c n " T g i k u v g t " w p f g t " 7 " W 0 U 0 E 0 " E " 7 7 4 * c + " c p f " 3 " E H T " r c t v " 7 3 0 " " C n n " c r r t q x g f " o c v g t k c n " k u " c x c k n c d n g " h q t " k p u r g e v k q p " c v " v j g " H g f g t c n " E q o o w p k e c v k q p u " E q o o k u u k q p . " 6 6 7 " 3 4 v j " U v t g g v " U Y 0 . " Y c u j k p i v q p . " F 0 E 0 " 4 2 7 7 6 " c p f " k u " c x c k n c d n g " h t q o " v j g " u q w t e g u " k p f k e c v g f " d g n q y 0 " " K v " k u " c n u q " c x c k n c d n g " h q t " k p u r g e v k q p " c v " v j g " P c v k q p c n " C t e j k x g u " c p f " T g e q t f u " C f o k p k u v t c v k q p " * P C T C + 0 " " H q t " k p h q t o c v k q p " q p " v j g " c x c k n c d n k v { " q h " v j k u " o c v g t k c n " c v " P C T C . " e c n n " 4 2 4 / 9 6 3 / 8 2 5 2 " q t " i q " v q " y y 0 l c t e j k x g u 0 i q x l h g f g t c n / t g i k u v g t l e h t l k d n t q e c v k q p 0 j v o n 0 "

*3+":24033r/4232."KGGG"Uvcpfctf"ht"Kphqt o cvkqp"vgejppnqi {"o"Nqecn"cpf"o gytqrqnkvcp"ctgc"pgvy qtmu"o" Urgekhe"tgswtg o gpvu"o"Rctv"33<"Yktnguu"NCP"Ogfkwo"Ceeguu"Eqpvtqn"*OCE+"cpf"Rj {ukecn"Nc {gt" *R J [+ " U r g e k h k e c v k q p u " C o g p f o g p v " 8 < " Y k t n g u u " C e e g u u " k p " X g j k e w n c t " G p x k t q p o g p v u " * 4 2 3 2 + 0 " " V j k u " u v c p f c t f " k u " c x c k n c d n g " h t q o " v j g " k p u v k v w v g " q h " G n g e v t k e c n " c p f " G n g e v t q p k e u " G p i k p g g t u " * K G G G + . " 5 2 4 7 " D q c t f y c m n " F t k x g . " U w k v g " 4 4 2 . " C p p " C t d q t . " O k " 6 : 3 2 : . " 3 / : 7 7 / ; ; / ; : 9 2 . " j w r < l l y y 0 l v g e j u v t g g v 0 e q o l k g g g 0 "

4304 C o g p f " u g e v k q p " ; 205:5"d{"tgxkukpi"vjg"kpvtqfwvvt{"vgzv"cpf"rctci t e r j " * d + " v q " t g c f " c u " h q m n q y u < "

§ 90.383 RSU sites near the U.S./Canada or U.S./Mexico border.

Wpku"uwe j"vk o g"cu"ci tgg o gpvu"dgvy ggp"vjg"Wpkvgf"Uvcvgu"cpf"Ecpcfc"qt"vjg"Wpkvgf"Uvcvgu"cpf"Ogzkeq."cu" cr rnkcedng."dgeq o g"ghhgevkg"i qxgtkpi"dqtfgt"ctgc"wg"qh"vjg"7: ; 7/7; 47" O J |"dcpf."cwwj qtk | cvkqpu"vq" qrgtcvg" Tqc fukfg" Wpkvu" *TUWu+"ctg"i tcvpfg"uwdlgev"vq"vjg" hqmqy kpi "eqpfkvkqpu"

" , , , , , "
*d+"Cwwj qtkv{"vq"qrgtcvg" TUWu"ku"uwdlgev"vq" o qfkhkecvkqpu"cpf"hwvwtg"ci tgg o gpvu"dgvy ggp"vjg" Wpkvgf" Uvcvgu"cpf"Ecpcfc"qt"vjg" Wpkvgf"Uvcvgu"cpf"Ogzkeq."cu"cr rnkcedng0"

Part 95 -Personal Radio Services

Vjg"cwvj qtkv{"ekvcvkp" hqt" rctv"; 7"eqpvkpwgu"vq"tgc f"cu" hqmqy u<"

Authority: "69" W0U0E0"376."525."cpf"5290"

Subpart L -DSRCS On-Board Units

440A C o gp f"ugevkq p"; 705323"vq"tgc f"cu" hqmqy u<"

§ 95.3101 Scope.

Vjku"uwd rctv"eqpvkpu"twngu"vjcv" cr rn{"qpn{"vq"Qp/Dqctf" Wpkvu" *QDWu+"vtcpu o kvkpi "kp"vjg"7: ; 7/7; 47" O J |"htgswgpe{"dcpf"kp"vjg" Fgfkcevfg"Ujqtv/Tcpi g"Eq o o wpkecvkqpu"Ugtxkegu" *FUTEU+"*ugg"È"; 20593"qh" vjku"ej crvgt+0"

450A Tg o qxg"cp f"tgugtxg"ugevkq p"; 70537; 0"

460A C o gp f"ugevkq p"; 705385"vq"tgc f"cu" hqmqy u<"

§ 95.3163 OBU frequencies.

FUTEU"Qp/Dqctf" Wpkvu" *QDWu+"ctg" rgt o kvvgf"vq" qrgtcvg"kp"vjg"7: ; 7/7; 47" O J |"dcpf0"

470A C o gp f"ugevkq p"; 705389"vq"tgc f"cu" hqmqy u<"

§ 95.3167 OBU transmit power limit.

*c+"Vjg" o czk o w o "qwwrww" r q y gt" hqt" rqtvc dng" FUTEU"Qp/Dqctf" Wpkvu" *QDWu+"vtcpu o kvvgt"v{ r gu"ku"302" o Y0"

*d+"Vjg" r q y gt"nk o kvu"kp" rctci tcr j "*c+"qh"vjku"ugevkq p" o c{"dg"tghgtgpegf"vq"vjg"cpvppc"kp rww."uq"vjcv"ecdng" nquugu"ctg"vcmgp"kp vq"cee qwp0"

*e+"Hqt" rwt rqugu"qh"vjku"ugevkq p."c" rqtvc dng"wpkv"ku"c"vtcpu o kvkpi "fgxkeg" fguk i pgf"vq"dg" wugf"uq"vjcv"vjg" tc fckvki "uvtwevwtg"u+"qh"vjg" fgxkeg"kulctg" y kvj kp"42"egpvk o gvgtu"qh"vjg"dqf{"qh"vjg" wugt0"

480A C o gp f"ugevkq p"; 7053: ; "vq"tgc f"cu" hqmqy u<"

§ 95.3189 OBU technical standard.

*c+"FUTEU"Qp/Dqctf" Wpkvu" *QDWu+"vtcpu o kvvgt"v{ r gu"qrgtcvki "kp"vjg"7: ; 7/7; 47" O J |"dcpf" o wuv"dg" fguk i pgf"vq"eq o rn{" y kvj "vjg"vgejpkecn"uvcpfctf"Kpuvkwvg"qh" Gngevtkecn"cpf" Gngevtqpkpu" Gp i kpggtu" *KGGG+ : 24033r/42320"

*d+"Vjg"uvcpfctfu"tgs wktgf"kp"vjku"ugevkq p"ctg" kpeqt rqtvcvgf" d{"tghgtgpeg"kp vq"vjku"ugevkq p" y kvj "vjg" cr r t qxcn" qh"vjg" Fktgevqt"qh"vjg" Hgfgtcn" Tg i kuvgt"wpfgt"7" W0U0E0"È"774*c+"cpf"3" EHT" rctv"730" Cnn" cr r t qxgf" o cvgtken" ku"cxckncdng" hqt"kpurgvqkv"cv"vjg" Hgfgtcn"Eq o o wpkecvkqpu"Eq o o kuukq p."667"34vj "Uvtggv"U Y 0." Y cu jkp i vqp." F0E0"42776"cpf"ku"cxckncdng"htq o "vjg"uqwtegu"kp fkecvg f" dngqy 0"Kv"ku"cnug"cxckncdng" hqt" kpurgvqkv"cv"vjg" Pcvkqpcn" Ctejkxgu"cpf" Tgeqtfu" C f o kpkuvtcvkq p" *PCTC+0" Hqt" kphqt o cvkq p" qp"vjg" cxckncdng{"qh"vjku" o cvgtken"cv" PCTC."ecnn"424/963/8252"qt" i q"vq" y y 0ctej kxgu0 i qxlhgfgtcn/ tg i kuvgtlehtlkdntqecvqpu0jv o n0"

*3+ : 24033r/4232."KGGG"Uvcpfctf" hqt" kphqt o cvkq p"vgejpqni {"ó" Nqecn"cpf" o gvtqrqkvcp"ctgc"pgv y qtmu"ó" Urgekhe"tgs wktg o gpvu"ó" Rctv"33<" Y ktnguu" NCP" Og fkw o "Ceeguu"Eqpvtn" *CE+"cpf" Rj {"ukecn" Nc {gt" *R J [+"Urgekhecvkqpu" C o gp f o gpv"8<" Y ktnguu" Ceeguu"kp" Xg j kewnct" Gpxktq p o gpvu" *4232+0" Vjku"uvcpfctf"

"

ku"cxckncdng"htq o "vjg"Kpukvwvg"qh"Gngevtkecn"cpf"Gngevtqpkcu"Gp i kpggtu"*KGGG+."5247"Dqctf y cmm"Ftkxg."
Uwkvg"442."Cpp"Ctdqt."OK"6:32:."3/:77/;;/;;:92."jvvr<1ly y y 0vgejuvtggv0eq o lkggg0"

490⁴ C o gpf"Cr rgpfkz"C"vq"rctv";7"d{"tgoqxkpi"vjg"gpvt{"kp"vjg"vcdng"htq"ö;70372;"/"CUVO"
G4435/25" FUTE"Uvcpfctf0

APPENDIX B

Proposed Rules

Part 15 – Radio Frequency Devices

Vjg"cwvjqtktv"ekvcvkqp"hqt"rctv"37"eqpvkpwgu"vq"tgcfcu"hqmqy u<

Authority:"69"W0U0E0"376."524c."525."526."529."558."766c."cpf"76;0"

30Á C o g p f " u g e v k q p " 3 7 0 6 2 9 " d { " t g x k u k p i " r c t c i t c r j u " * c + * 5 + " c p f " * d + * 7 + " v q " t g c f c u " h q m q y u <

§ 15.407 General technical requirements.

" , , , "

" *c+ , , , "

" *5+"Hqt"vjg"dcpf"70947/70: ; 7" I J | "

*k+ , , , "

*kk+"Hqt"cp"kpffqqt"ceeguu"rqkpv"qrgtcvkpi"kp"vjg"70: 72/70: ; 7" I J | " d c p f . " v j g " o c z k o w o " r q y g t " u r g e v t c n " f g p u k v { " o w u v " p q v " g z e g g f " 4 5 " f D o " g 0 k 0 t 0 r 0 " k p " c p { " 3 / o g i c j g t v | " d c p f 0 " k p " c f f k v k q p . " v j g " o c z k o w o " g 0 k 0 t 0 r 0 " q x g t " v j g " h t g s w g p e { " d c p f " q h " q r g t c v k q p " o w u v " p q v " g z e g g f " 5 8 " f D o 0 " k p f q q t " c e e g u u " r q k p v u " q r g t c v k p i " q p " c " e j c p p g n " v j c v " u r c p u " v j g " 7 0 9 4 7 / 7 0 : 7 2 " I J | " c p f " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f u " o w u v " p q v " g z e g g f " c p " g 0 k 0 t 0 r 0 " q h " 5 8 " f D o 0 "

*kk+"Hqt"enkpv"fgxkegu"qrgtcvkpi"wpfgt"vjg"eqvtqn"qh"cp"kpffqqt"ceeguu"rqkpv"kp"vjg"70: 72/70: ; 7" I J | " d c p f . " v j g " o c z k o w o " r q y g t " u r g e v t c n " f g p u k v { " o w u v " p q v " g z e g g f " 3 9 " f D o " g 0 k 0 t 0 r 0 " k p " c p { " 3 / o g i c j g t v | " d c p f . " c p f " v j g " o c z k o w o " g 0 k 0 t 0 r 0 " q x g t " v j g " h t g s w g p e { " d c p f " q h " q r g t c v k q p " o w u v " p q v " g z e g g f " 5 2 " f D o 0 " E n k g p v " f g x k e g u " q r g t c v k p i " q p " c " e j c p p g n " v j c v " u r c p u " v j g " 7 0 9 4 7 / 7 0 : 7 2 " I J | " c p f " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f u " o w u v " p q v " g z e g g f " c p " g 0 k 0 t 0 r 0 " q h " 5 2 " f D o 0 "

*kx+"Hqt"cuwdqtfkpcvg"fgxkeg"qrgtcvkpi"wpfgt"vjg"eqvtqn"qh"cp"kpffqqt"ceeguu"rqkpv"kp"vjg"70: 72/70: ; 7" I J | " d c p f . " v j g " o c z k o w o " r q y g t " u r g e v t c n " f g p u k v { " o w u v " p q v " g z e g g f " 4 5 " f D o " g 0 k 0 t 0 r 0 " k p " c p { " 3 / o g i c j g t v | " d c p f . " c p f " v j g " o c z k o w o " g 0 k 0 t 0 r 0 " q x g t " v j g " h t g s w g p e { " d c p f " q h " q r g t c v k q p " o w u v " p q v " g z e g g f " 5 8 " f D o 0 "

*x+"Hqt"cp"qvwfqqt"ceeguu"rqkpv"qrgtcvkpi"kp"vjg"70: 72/70: ; 7" I J | " d c p f . " v j g " o c z k o w o " r q y g t " u r g e v t c n " f g p u k v { " o w u v " p q v " g z e g g f " 4 5 " f D o " g 0 k 0 t 0 r 0 " k p " c p { " 3 / o g i c j g t v | " d c p f " q h " q r g t c v k q p " o w u v " p q v " g z e g g f " 5 8 " f D o 0 " Q w v f q q t " c e e g u u " r q k p v u " o w u v " n k o k v " v j g k t " o c z k o w o " g 0 k 0 t 0 r 0 " c v " c p { " g n g x c v k q p " c p i n g " c d q x g " 5 2 " f g i t g g u " c u " o g c u w t g f " h t q o " v j g " j q t k | q p " v q " 4 3 " f D o " * 3 4 7 " o Y + " v q " r t q v g e v " h k z g f " u c v g m k v g " u g t x k e g u 0 " Q w v f q q t " c e e g u u " r q k p v u " q r g t c v k p i " q p " c " e j c p p g n " v j c v " u r c p u " v j g " 7 0 9 4 7 / 7 0 : 7 2 " I J | " c p f " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f u " o w u v " p q v " g z e g g f " c p " g 0 k 0 t 0 r 0 " q h " 5 8 " f D o 0 "

*xk+"Kp"vjg"70: 72/70: ; 7" I J | " d c p f . " e n k g p v " f g x k e g u " o w u v " q r g t c v g " w p f g t " v j g " e q p v t q n " q h " c p " k p f q q t " c e e g u u " r q k p v 0 " K p " c m n " e c u g u . " c p " g z e g r v k q p " g z k u v " h q t " v t c p u " o k v k p i " d t k g h " o g u u c i g u " v q " c p " c e e g u u " r q k p v " y j g p " c v v g " o r v k p i " v q " l q k p " k v u " p g v " y q t m " c h v g t " f g v g e v k p i " c " u k i " p c n " v j c v " e q p h k t " o u " v j c v " c p " c e e g u u " r q k p v " k u " q r g t c v k p i " q p " c " r c t v k e w n c t " e j c p p g n 0 " C e e g u u " r q k p v u " o c { " e q p p g e v " v q " q v j g t " c e e g u u " r q k p v u 0 "

*xkk+"Hqt"enkpv"fgxkegu"qrgtcvkpi"wpfgt"vjg"eqvtqn"qh"cp"qvwfqqt"ceeguu"rqkpv"kp"vjg"70: 72/70: ; 7" I J | " d c p f . " v j g " o c z k o w o " r q y g t " u r g e v t c n " f g p u k v { " g 0 k 0 t 0 r 0 " o w u v " p q v " g z e g g f " 3 9 " f D o " k p " c p { " 3 / o g i c j g t v | " d c p f . " c p f " v j g " o c z k o w o " g 0 k 0 t 0 r 0 " q x g t " v j g " h t g s w g p e { " d c p f " q h " q r g t c v k q p " o w u v " p q v " g z e g g f " 5 2 " f D o 0 " " E n k g p v " f g x k e g u " q r g t c v k p i " q p " c " e j c p p g n " v j c v " u r c p u " v j g " 7 0 9 4 7 / 7 0 : 7 2 " I J | " c p f " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f u " o w u v " p q v " g z e g g f " c p " g 0 k 0 t 0 r 0 " q h " 5 2 " f D o 0 "

*xkkk+"Qrgtcvkqp"qh"qvwfqqt"W/PKK"fgxkegu"kp"vjg"70: 72/70: ; 7" I J | " d c p f . " y k v j k p " v j g " g z e n w u k q p " | q p g u " n k u v g f " k p " v j g " v c d n g " d g n q y . " v q " y j k e j " P V K C " o c { " c o g p f . " o q f k h { . " q t "

tgxqmg"nqecvkqpu"cpf"cuuqekcvgf"rctc o gyvtu."ku"pqv"rgt o kvgf0"Vjg"qwwfqqt"W/PKK"
 gzenwukqp" | qpgu"hqt"gcej"hgfgtcn"hecnkv{"nqecvkqp"ctg"ejctcevgtk|gf"d{"c"egpvt"rqkpv"
 *ncvkwf glnqpi kwf g+"cpf"tcfkwu"*vq"fghkpg" c"ektewnc"ctgc+"vq"hecnkvvg"vjg"tgi wncvqt"rtqegu"
 qh"eqqtfkpcvkq0"

Facility Name	Latitude DD-MM-SS North	Longitude DD-MM-SS West	Exclusion Zone Radius (km)
Cpenqvg."Hnqtkfc"	4:/33/3:	:4/69/62	76"
Ecrg"Epcxgten."Hnqtkfc"	4:/4:/76	:2/56/57	75"
Ecrg"Ucp"Dncu."Hnqtkfc"	4:/62/53	:7/42/6:	77"
Ectcdngng"Hkgnf."Hnqtkfc"	4:/72/5:	:6/5:/68	76"
Ejctnguvqp."Uqvwj"Ectqkpc"	54/73/6:	9:/79/6:	77"
Gfyctfu."Ecnkhqtpkc"	56/78/65	339/76/72	73"
Ginkp."Hnqtkfc"	52/59/73	:8/46/38	338"
Hqtv"Ycnvqp"Dgcej."Hnqtkfc"	52/46/75	:8/5:/7:	78"
Mgppgf{"Urcg"Egpgvt."Hnqtkfc"	4:/47/4;	:2/5:/73	;"
Mg{"Yguv."Hnqtkfc"	46/55/2;	:3/6:/4:	76"
Mktvncpf"CHD."Pgy"Ogzkeq"	56/7:/73	328/4:/76	37"
Mqmggrctm."Jeyck"	44/29/57	37:/62/28	6;"
OceFkn."Hnqtkfc"	49/72/59	:4/52/26	7:"
PX"Vguv"Vtckpki"Tcpig."Pgxfc"	59/3:/49	338/32/46	3:6"
Rcvwzgpv"Txgt."Oct{nepf"	5:/38/77	98/47/34	9"
Rgetn"Jctdqt."Jeyck"	43/43/39	379/79/73	77"
Rkncet"Rqkpv."Ecnkhqtpkc"	59/4:/74	344/4:/7;	32"
Rqmgf"Hncv."Cncume"	87/29/58	369/4:/43	7:"
Rqtv"Epcxgten."Hnqtkfc"	4:/46/64	:2/58/39	76"
Rqtv"Jwpgog."Ecnkhqtpkc"	56/2:/82	33:/34/46	76"
Rqkpv"Owiw."Ecnkhqtpkc"	56/29/39	33;/:/23	:3"
Ucfngdwpej"Mg{u."Hnqtkfc"	46/5:/73	:3/58/44	76"
Ucp"Fkqiq."Ecnkhqtpkc"	54/65/22	339/33/22	76"
Ucp"Pkeqncu"Kuncpf."Ecnkhqtpkc"	55/36/69	33:/53/29	388"
Vqpqrj"Vguv"Tcpig."Pgxfc"	59/66/22	338/65/22	6:"
Xcpfpgdgti."Ecnkhqtpkc"	56/56/7:	342/55/64	96"
Xgpkeg."Hnqtkfc"	49/26/59	:4/49/25	76"
Ycnqru"Kuncpf."Xtkikpkc"	59/73/45	97/52/63	8:"
Yjkgv"Ucpfu"Okukng"Tcpig."Pgy" Ogzkeq"	54/7:/48	328/45/65	382"
[woc."Ctk qpc"	54/76/25	336/45/32	6;"

PQVGVQ"RCTC ITCR J*c+5<Vjg"Eq o o kuukap"vntqpin{"tgeq o o gpfu"vjcv"rctkcu"g o rnc{kpi"W/PKK"fgxkegu"vq"rtqkfg"
 etkvecr"eq o o wpcvkqpu"ugtxkegu"ujqwnf"fgvgt o kpg"kh"vjgtg"ctg"cp{"pgctd{"Iqxgtp o gpv"tc fct"u{uvg o u"vjcv"eqwnf"chge"vjgkt"
 qrgtcvkq0"

," , , , , *d+*7"Hqt"vtepu o kvgtu"qrgtcvkpi"uqngn{"kp"vjg"70:72/70: ;7" I J |"dcpf"qt"qrgtcvkpi"qp" c"
 ejcppgn"vjcv"urepu"cetquu"70947/70: ;7" I J |<

*k+ , , , "

*kk+"Hqt" c"enkpv"fgxkeg"qt"cp"qwwfqqt"ceeguu"rqkpv."cnn" g o kuukapu"cv"qt"cdqyg"70: ;7" I J |"ujcnn"pqv"

gzeqgf"cp"qk0t0r0"qh"/7"fD o l O J |"cpf"ujcnn"fgctgucg"nkpqctn{"vq"cp"qk0t0r0"qh"/49"fD o l O J |"cv"qt"cdqxcg"70;47" I J |0"

*kkk+"Cm"g o kuukqpu"dgnqy "70947" I J |"ujcnn"pqv"gzeggf"cp"qk0t0r0"qh" 49"fD o l O J |"cv"7087" I J |"kpetgcuipi"nkpqctn{"vq"32"fD o l O J |"cv"709" I J |."cpf"htq o "709" I J |"kpetgcuipi"nkpqctn{"vq"c"ngxgn"qh"3708" fD o l O J |"cv"7094" I J |."cpf"htq o "7094" I J |"kpetgcuipi"nkpqctn{"vq"c"ngxgn"qh"49"fD o l O J |"cv"70947" I J |0",",",",",",

Part 90 – PRIVATE LAND MOBILE RADIO SERVICES

40A C o g p f "u w d r c t v" O "v q" v j g" V c d n g" q h" E q p v g p v u" q h" r c t v"; 2" d { " o q f k h { k p i" v j g" u w d j g c f k p i" c h v g t" u g e v k q p"; 20587" c p f" c f f" u g e v k q p"; 20592" v q" t g c f" c u" h q m n q y u c"

Subpart M – Intelligent Transportation Systems Radio Service

" , , , , , "

T g i w n c v k q p u" I q x g t p k p i" v j g" N k e g p u k p i" c p f" W u g" q h" H t g s w g p e k u" k p" v j g" 7 : ; 7 / 7 ; 4 7" O J |" D c p f" h q t" E g n n w n c t" X g j k e n g" v q" G x g t { v j k p i" U g t x k e g" * E / X 4 Z + 0"

90.370 Permitted Frequencies.

" , , , , , "

50A V j g" c w v j q t k v { " e k v c v k q p" h q t" r c t v"; 2" e q p v k p w g u" v q" t g c f" c u" h q m n q y u c"

Authority:"69"W0U0E0"376*k+."383."525*i+."525*t+."554*e+*9+."3623/36950"

Subpart A – GENERAL INFORMATION

60A C o g p f" u g e v k q p"; 209" k u" d { " t g o q x k p i" v j g" g p v t { " v q" F g f k e c v g f" U j q t v" T c p i g" E q o o w p k e c v k q p" U g t x k e g" * F U T E U + . " c f f k p i" c p" g p v t { " h q t" E g n n w n c t" X g j k e n g" v q" G x g t { v j k p i" U g t x k e g" * E X 4 Z + " k p" c n r j c d g v k e c n" q t f g t. " c p f" o q f k h { k p i" v j g" g p v t k g u" h q t" Q p / D q c t f" w p k v" * Q D W + . " T q c f u k f g" w p k v" * T U W + " c p f" T q c f y c { " d g f" u w t h c e g" v q" t g c f" c u" h q m n q y u c"

§ 90.7 Definitions.

" , , , , , "

Cellular Vehicle to Everything Service (C-V2X). V j g" w u g" q h" e g n n w n c t" t c f k q" v g e j p k s w g u" f g h k p g f" d { " v j g" 5 t f" I g p g t c v k q p" R c t v p g t u j k r" R t q i t c o" * 5 I R R + " v q" v t c p u h g t" f c v c" d g v y g g p" t q c f u k f g" c p f" o q d k n g" w p k v u. " d g v y g g p" o q d k n g" w p k v u. " c p f" d g v y g g p" r q t v c d n g" c p f" o q d k n g" w p k v u" v q" r g t h q t o" " q r g t c v k q p u" t g n c v g f" v q" v j g" k o r t q x g o g p v" q h" v t c h h k e" h n q y. " v t c h h k e" u c h g v { . " c p f" q v j g t" k p v g n k i" g p v" v t c p u r t q t v c v k q p" u g t x k e g" c r r n k e c v k q p u" k p" c" x c t k g v { " q h" g p x k t q p o g p v u" " E / X 4 Z" u { u v g o u" o c { " c n u q" v t c p u o k v" u v c v w u" c p f" k p u v t w e v k q p c n" o g u u c i g u" t g n c v g f" v q" v j g" w p k v u" k p x q n x g f 0"

" , , , , , "

On-Board Unit (OBU). C p" Q p / D q c t f" W p k v" k u" c" E / X 4 Z" v t c p u e g k x g t" v j c v" k u" p q t o c m n { " o q w p v g f" k p" q t" q p" c" x g j k e n g. " q t" y j k e j" k p" u q o g" k p u v c p e g u" o c { " d g" c" r q t v c d n g" w p k v 0" " C p" Q D W" e c p" d g" q r g t c v k q p c n" y j k n g" c" x g j k e n g" q t" r g t u q p" k u" g k v j g t" o q d k n g" q t" u v c v k p c t { 0" " V j g" Q D W u" t g e g k x g" c p f" v t c p u o k v" q p" q p g" q t" o q t g" t c f k q" h t g s w g p e { " * T H + " e j c p p g n u 0" " G z e g r v" y j g t g" u r g e k h k e c n n { " g z e n w f g f. " Q D W" q r g t c v k q p" k u" r g t o k w g f" y j g t g x g t" x g j k e n g" q r g t c v k q p" q t" j w o c p" r c u u c i g" k u" r g t o k w g f 0" " V j g" Q D W u" o q w p v g f" k p" x g j k e n g u" c t g" n k e g p u g f" d { " t w n g" w p f g t" r c t v" ; 7" q h" v j k u" e j c r v g t" c p f" e q o o w p k e c v g" y k v j" T q c f u k f g" W p k v u" * T U W u + " c p f" q v j g t" Q D W u 0" " R q t v c d n g" Q D W u" c t g" c n u q" n k e g p u g f" d { " t w n g" w p f g t" r c t v"; 7" q h" v j k u" e j c r v g t 0"

Roadside Unit (RSU). C" T q c f u k f g" W p k v" k u" c" E / X 4 Z" v t c p u e g k x g t" v j c v" k u" o q w p v g f" c n q p i" c" t q c f" q t" r g f g u v t k c p" r c u u c i g y c { 0" " C p" T U W" o c { " c n u q" d g" o q w p v g f" q p" c" x g j k e n g" q t" k u" j c p f" e c t t k g f. " d w v" k v" o c { " q p n { " q r g t c v g" y j g p" v j g" x g j k e n g" q t" j c p f" e c t t k g f" w p k v" k u" u v c v k p c t { 0" " H w t v j g t o q t g. " c p" T U W" q r g t c v k p i" w p f g t" v j k u" r c t v" k u" t g u v t k e v g f" v q" v j g" n q e c v k q p" y j g t g" k v" k u" n k e g p u g f" v q" q r g t c v g 0" " J q y g x g t. " r q t v c d n g" q t" j c p f" / j g n f" T U W u" c t g" r g t o k w g f" v q" q r g t c v g" y j g t g" v j g { " f q" p q v" k p v g t h g t g" y k v j" c" u k v g" n k e g p u g f" q r g t c v k q p 0" " C p" T U W" d t q c f e c u v u" f c v c" v q" q t" g z e j c p i g u" f c v c" y k v j" Q D W u 0"

Roadway bed surface. Hqt"E/X4Z."vjg"tqcf"uwthceg"cv"i tqwpf"ngxgn0"

Subpart H—POLICIES GOVERNING THE ASSIGNMENT OF FREQUENCIES

70Á C o gpf"ugevkqp";20397"d{"tgxkukpi"rctci tcr j"*I+*38+"vq"tqcf"cu"hqnnq yu<"

§ 90.175 Frequency coordinator requirements.

," , , , , "

*I+ , , , "

*38+"Cr rnkecvkqpu"hqt"E/X4Z"nkegpugu"*cu"y gmn"cu"tg i kuvtevkqpu"hqt" Tqc fukfg" Wpkvu+"wpfgt"uwdrc tv" O"qh"vjku" rctv"kp"vjg"7: ; 7/7; 47" I J |"dcpf0"

," , , , , "

80Á C o gpf"ugevkqp";2039;"d{"tgxkukpi"rctci tcr j"*h+"vq"tqcf"cu"hqnnq yu<"

§ 90.179 Shared use of radio stations.

," , , , , "

*h+"Cdqxg":22"O J |."ujctgf"wug"qp" c" hqt/rtqhk v" rtkxcvg"ecttkgt"dcuku"ku" rgt o kvvgf"qpn{"d{"UOT."Rtkxcvg" Ecttkgt"Rc i kpi."NOU."cpf"E/X4Z"nkegpuggu0""Ugg"uwdrc tvu"O."R."cpf"U"qh"vjku"rctv0"

Subpart I—GENERAL TECHNICAL STANDARDS

90Á C o gpf"ugevkqp";20432"d{"tgxkukpi" hqqvpqvg"6"qh"vjg"vcdng"vq"tqcf"cu"hqnnq yu<"

§ 90.210 Emission masks.

" , , , , , "

Applicable Emission Masks Frequency band (MHz)	Mask for equipment with audio low pass filter	Mask for equipment without audio low pass filter
," , , , , "	," , , , , "	," , , , , "
7: ; 7/7; 47 ⁶ "	"	
," , , , , "	," , , , , "	," , , , , "

6" EX4Z"Ugtxkeg" Tqc fukfg" Wpkvu"gs wkr o gpv"kp"vjg"7: ; 7/7; 47"O J |"dcpf"ku" i qxgtpgf"wpfgt"uwdrc tv" O"qh"vjku"rctv0"

," , , , , "

:0Á C o gpf"ugevkqp";20435"d{"tgxkukpi" hqqvpqvg"32"qh"vjg"vcdng"kp"rctci tcr j"*c+"vq"tqcf"cu" hqnnq yu<"

§ 90.213 Frequency stability.

*c+ , , , "

³²Htgs wgp e{"uvcdkknv{"hqt"E/X4Z"Ugtxkeg"gs wkr o gpv"kp"vjg"7: ; 7/7; 47"O J |"dcpf"ku"urgek hkgf"kp"uwdrc tv"O" qh"vjku"rctv0""Hqt"cmn"qv jgt"gs wkr o gpv."htgs wgp e{"uvcdkknv{"ku"vq"dg"urgek hkgf"kp"vjg"ucvkqp"cwvj qtk |cvkqp0"

," , , , , "

Subpart M—Intelligent Transportation Systems Radio Service

;0Á C o gpf"ugevkqp";20572"vq"tqcf"cu"hqnnq yu<"

§ 90.350 Scope.

V jg"Kpvgmki gpv"Vtcpu rqtvcvkqp"U{uvg o u"*KVU+"tcfkq"ugtxkeg"ku" hqt"vjg"rwtrqug"qh"kpvg i tcvkpi"tcfkq/dcugf" vge j pnnq i kgu"kp vq"vjg"pcvkqp)u"vtcpu rqtvcvkqp"kphtcuvtewewtg"cpf"vq"fgxgnqr"cpf"ko r ng o gpv"vjg"pcvkqp)u" kpvgnmki gpv"vtcpu rqtvcvkqp"u{uvg o u0"Kv"kp enw fgu"vjg"Nqecvkqp"cpf"O qpkvqtkpi"Ugtxkeg"*NOU+"cpf"vjg"

Egnwnct"Xgjkeng"vq"Gxgt{vj kpi "Ugtxkeg"*E/X4Z+0""Twngu"cu"vq"gnki kdknkv {"hqt"nkegpuki ."htgswgpekgu" cxclncdng."cpf"cp{"urgekci"tgs wktg o gpvu"hqt"ugtxkegu"kp"vjg"kpvgnk i gpv"Vtcpu rqtvcvkqp"U{uvgo u"tc fkg" ugtxkeg"ctg"ugv"hqtvj"kp"vjku"uwd rctv0"

320A C o gpf"vjg"jgc f kpi "rtkqt"vq"ugevkqp"; 20592"vq"tgc f"cu"hqnnq y u<"

Tgi wncvkqpu" I qxgtpki "vjg"Nkegpuki "cpf"Wug"qh"Htgswgpekgu"kp"vjg"7: ; 7/7; 47"O J | "Dcpf"hqt"Egnwnct" Xgjkeng"vq"Gxgt{vj kpi "*"E/X4Z+"Ugtxkeg0"

330A C o gpf"ugevkqp"; 20592"d{"tgxkuki "rctci tcr j "*"c+"vq"tgc f"cu"hqnnq y u<"

§ 90.370 Permitted frequencies.

*c+"E/X4Z" Tqc fukfg" Wpkvu" TUWu+"ctg" rgt o kwg f"vq" qrgtcvg"kp"vjg"7: ; 7/7; 47"O J | "dcpf0"

340A C o gpf"ugevkqp"; 20593"vq"tgc f"cu"hqnnq y u<"

§ 90.371 C-V2X."

*c+"E/X4Z" Tqc fukfg" Wpkvu" TUWu+"qrgtcvki "kp"vjg"dcpf"7: ; 7/7; 47"O J | "ujcnn"pqv"tgegkxg"rtqvgevkqp" htq o " I qxgtp o gpv" Tc fknqecvkqp"ugtxkegu"kp"qrgtcvkqp"rtkqt"vq"vjg"guvcdnkj o gpv"qh"vjg" TUW0""Qrgtcvkqp" qh" TUW"uvcvkqpu" y kvj kp"vjg" | qpgu"nkuvgf"kp"vjg"vcdng" dgnq y ."vq" y jkej" PVKC" o c{"c o gpf." o qfkh{"qt"tgxqmg" nqecvkqpu"cpf"cuuqekcvgf" rctc o gvgtu." o wuv"dg" eqqt f kpcvgf"vj tqw i j"vjg" Pcvkqpcn"Vgngeq o o wpkecvkqpu"cpf" kphqt o cvkqp" C f o kpkv tcvkqp0"

*d+"E/X4Z" Tqc fukfg" Wpkvu" TUWu+"qrgtcvki "kp"vjg"dcpf"7: ; 7/7; 47"O J | "ujcnn"pqv"tgegkxg"rtqvgevkqp" htq o " I qxgtp o gpv" Tc fknqecvkqp"ugtxkegu"kp"qrgtcvkqp"rtkqt"vq"vjg"guvcdnkj o gpv"qh"vjg" E/X4Z"uvcvkqp0" Qrgtcvkqp"qh" E/X4Z" TUW"uvcvkqpu" y kvj kp"vjg"tc fkwu"egpvgtgf"qp"vjg"nqecvkqpu"nkuvgf"kp"vjg"vcdng" dgnq y ."vq" y jkej" PVKC" o c{"c o gpf." o qfkh{"qt"tgxqmg"nqecvkqpu"cpf"cuuqekcvgf" rctc o gvgtu." o wuv"dg" eqqt f kpcvgf" vj tqw i j"vjg" Pcvkqpcn"Vgngeq o o wpkecvkqpu"cpf" kphqt o cvkqp" C f o kpkv tcvkqp0"

" , , , , , "

350A C o gpf"ugevkqp"; 20595"d{"tgxkuki "vjg"jgc f kpi "cpf"vjg"kpvtqfwevqt{"vgzv"vq"tgc f"cu" hqnnq y u<"

§ 90.373 Eligibility in C-V2X."

Vjg"hqnnq y kpi "gpvkvku"ctg"gnki kdng"vq"jqnf"cp"cwvjqtk | cvkqp"vq"qrgtcvg" Tqc fukfg"wpkvu"kp" E/X4Z"

" , , , , , "

360A C o gpf"ugevkqp"; 20597"vq"tgc f"cu"hqnnq y u<"

§ 90.375 License areas, communication zones, and registrations"

*c+"Tqc fukfg" Wpkvu" TUWu+"kp"vjg"7: ; 7/7; 47"O J | "dcpf"ctg"nkegpugf"qp"vjg"dcuku"qh"pqg/gzenwukxg" igqi tcr jke"ctgcu0"" I qxgtp o gpvcn"cr rnkecpvu" y knn"dg"kuuwgf" c" igqi tcr jke"ctgc"nkegpug"dcugf"qp"vjg" igq/ rqnkvkecn"ctgc" gpeq o rcuukpi "vjg"ngicn"lwtku fkevqp"qh"vjg"gpvkv{0"" Cnn"qvjgt"cr rnkecpvu" y knn"dg"kuuwgf" c" igqi tcr jke"ctgc"nkegpug" hqt"vjgkt" rtrqruqgf"ctgc"qh"qrgtcvkqp"dcugf"qp"eqwv{ *u+."uvcv* u+"qt"pcvkqpykf g0"

d+"Cr rnkecpvu" y jq"ctg" rrtqxgf"kp"ceeqtfcpeg" y kvj"HEE" Hqt o "823" y knn"dg" i tcvpvgf"pqg/gzenwukxg" nkegpugu" hqt"vjg"ejcppgn u+"eqttgu rqp f kpi "vq"vjgkt"kpvgpfgf"qrgtcvkqpu"*ugg"È"; 20592+0""Uwej"nkegpugu"ugtxg" cu"r"rtgtswkuvq"qh"tg i kuvgtki "kpfkxfwcn" TUWu"nqecvgf" y kvj kp"vjg"nkegpugf" igqi tcr jke"ctgc" fguetkdgf"kp" rctci tcr j "*"c+"qh"vjku"ugevkqp0""Nkeppuggu" o wuv"tg i kuvgt" gcej" TUW"kp"vjg" Wpkxgtucn" Nkegpuki "U{uvgo o "*"WNU+ "dghqte"qrgtcvki "uwej" TUW0"" TUW"tg i kuvtkvqpu"ctg" uwdlgev."kpvgt"cnkc."vq"vjg"tgs wktg o gpvu"qh"È"30; 45"qh" vjku"ej crvgt"cu"cr rnkecdng"*cpvgppc" uvtwevwtg"tg i kuvtkvqpu."gpvktqp o gpvcn"eqpegtpu."kpvgtcvkqpcn" eqqt f kpcvqp."cpf" s'wkgv" | qpgu+0"" C f fkvkqpcnn {" TUWu"cv"nqecvkqpu"uwdlgev"vq" PVKC"eqqt f kpcvqp"*ugg"È" ; 20593*c++" o c{"pqv"dg i kp"qrgtcvkqp"wpvkn" PVKC" rrtqxcn"ku"tgegkxgf0"" Tgi kuvtkvqpu"ctg"pqv"ghhgevkxg"wpvkn" vjg"Eq o o kuukqp"rqvu"vjg o "qp"vjg" WNU0""Kv"ku"vjg"nkegpuggu"tgurqpukdknkv{"vq"fgngvg"htq o "vjg"tg i kuvtkvqpu" fcvdcug"cp{" TUWu"vjcv"jcxg"dgpp"fkueqvpkpwgf0"

*e+"Nkegpuggu" o wuv"qrgtcvg" gcej "TUW"kp"ceeqtfcpeg" ykvj "vjg"Eq o o kuukqp)u"twngu"cpf"vjg"tg i kuvtcvkqp"fcvc" rquvfg"qp"vjg"WNU"hq"uwej "TUW0""Nkegpuggu" o wuv"tg i kuvgt" gcej "TUW"hq"vjg"u o cmnguv"eq o o wpkecvkqp" | qpg"pggfgf"hq"vjg"kpvgmki gpv"vtcpurqtvcvkqp"u{uvg o u"cr r nkecvkqp"wukpi "qpg"qh"vjg"hqmq ykp i "hqw" eq o o wpkecvkqp" | qpgu<

TUW"encuu"	Oczk o w o "qwwrww"rqygt"*fD o ³	Eq o o wpkecvkqpu" qpg"* o gvgtu+
C"	2"	37
D"	32"	322
E"	42"	622
F"	4:0:	3222

³"Cu"fguetkdgf"kp"vjg"CVKU"vtcpurqugf"uvpcfctfu"qh"vjg"5 IRR"*kpeqtrqtcvgf"d{"tghgtgpeg."see È"; 2059; +0" 370 C o gpf"ugevkqp"; 20599"vq"tgc f"cu"hqmq y u<

§ 90.377 Maximum EIRP and antenna height."

*c+"E/X4Z"Ugtxkeg"nkegpuggu" o wuv"vtcpu o kv"qpn{"vjg"rqygt"*GKTR+"pggfgf"vq"eq o o wpkecvg" ykvj "cp"Qp/ Dqctf"Wpkv"*QDW+" ykvj"kp"vjg"eq o o wpkecvkqpu" | qpg"cpf" o wuv"vcmg"uvgru"vq"nk o kv"vjg" Tqcfukfg"Wpkv"*TUW+ ukipc" ykvj"kp"vjg" | qpg"vq"vjg" o czk o w o "gzvpgv"rtcevekcdng0"

*d+"E/X4Z"nkegpuggu" o wuv"nk o kv" TUW"qwwrww"rqygt"vq"42" fD o "cpf"gswxcnpgv"kuqvtqrkecn{"tcfkcvgf"rqygt" *GKTR+"vq"55" fD o 0""Vjg"GKTR"ku" o gcuwtgf"cu"vjg" o czk o w o "GKTR"vqyctf"vjg"jqt k | qp"qt" jqt k | qpvcn." yjkejgxtg"ku"i tgcvtg."qh"vjg"i ckp"cuuqekcvgf" ykvj"vjg" o ckp"qt"egpvtg"qh"vjg"vtcpu o kuukqp" dgc o 0"

*e+"Vjg"tcfkcvkqp"egpvtg"qh"cp" TUW"cpvgppc"ujcnn"pqv"gzeggf": " o gvgtu"cdqvg"vjg"tqcf y c {"d g f"uwthceg." gzege"vjcv"cp" TUW" o c {"g o r nq {"cp"cpvgppc" ykvj "c"jgk i j v"gzeggf"kp i": " o gvgtu"dww"pqv"gzeggf"kp i"37" o gvgtu" r t q x k f g f" v j g" G K T R" u r g e k h k g f" k p" r e t c i t e r j u" * c + " c p f" * d + " q h" v j k u" u g e v k p" k u" t g f w e g f" d {" c" h c e v q t" q h" 4 2" n q i * J v l : + " k p" f D" y j g t g" J v" k u" v j g" j g k i j v" q h" v j g" t c f k c v k q p" e g p v t g" q h" v j g" c p v g p p c" k p" o g v g t u" c d q x g" v j g" t q c f y c {" d g f" u w t h c e g 0"" V j g" T U W" c p v g p p c" j g k i j v" o w u v" p q v" g z e g g f" 3 7" o g v g t u" c d q x g" v j g" t q c f y c {" d g f" u w t h c e g 0"

380 C o gpf"ugevkqp"; 2059; "vq"tgc f"cu"hqmq y u<

§ 90.379 Technical standards for Roadside Units"

*c+"E/X4Z"Ugtxkeg" TUWu"qrgtcvkpi"kp"vjg"7; 27/7; 47" O J | "dcpf"ujcnn"eq o rn {" ykvj"vjg"X4Z"ukfgnkp"m" ugtxkeg"hq"t"vjku"dcpf"cu"fguetkdgf"kp"vjg"CVKU"vtcpurqugf"uvpcfctfu"qh"vjg"5 IRR"urgekhecvkqpu"gzegrv" yjgtg"vjgug"twngu"cpf"tg i wncvkqpu"vcmg"rtgegf gpeg0"

*d+"Vjg"uvpcfctfu"tgswtgf"kp"vjku"ugevkqp"ctg" kpeqtrqtcvgf"d {"tghgtgpeg"kpq"vjku"ugevkqp" ykvj"vjg"cr r t q x c n" qh"vjg" Fktgevtq"qh"vjg"Hgfgtcn" Tg i kuvgt"wpfgt"7"W0U0E0"È"774*c+"cpf"3"EHT"rctv"730" Cnn"cr r t q x g f" o cvgtken" ku"cxckncdng"hq"t"kpurgvkvq"cv"vjg"Hgfgtcn"Eq o o wpkecvkqpu"Eq o o kuukqp."667"34vj"Uvtggv"UY0." Ycu j k p i v q p. " F 0 E 0 " 4 2 7 7 6 " c p f " k u " c x c k n c d n g " h t q o " v j g" u q w t e g u" k p f k e c v g f" d g n q y 0"" K v" k u" c n u q" c x c k n c d n g" h q t" k p u r g e v k q p" c v" v j g" P c v k a p c n" C t e j k x g u" c p f" T g e q t f u" C f o k p k u v t c v k q p" * P C T C + 0"" H q t" k p h q t o c v k q p" q p" v j g" c x c k n c d n k v {" q h" v j k u" o c v g t k e n" c v" P C T C. " e c n n" 4 2 4 / 9 6 3 / 8 2 5 2" q t" i q" v q" y y 0 c t e j k x g u 0 i q x l h g f g t c n / t g i k u v g t l e h t l k d t n q e c v k q p u 0 j v o n 0"

*3+"5 IRR" Tngcug"36."5tf" I gpgtcvkqp"Rctvpgtujkr"Rtqlgev"Vgejpkecn"Urgekhecvkqp" I tqwr"Ugtxkegu"cpf" U { u v g o " C u r g e v u" * 4 2 3 : + 0"" V j k u" u v p f c t f" k u" c x c k n c d n g" h t q o " C V K U. " 3 4 2 2" I " U v t g g v" P Y" U w k v g" 7 2 2. " Y c u j k p i v q p. " F 0 E 0 " 4 2 2 2 7. " j v r u c l l y y 0 c v k u 0 q t i l f q e u v q t g l f g h c w n 0 c u r z 0"

390 C o gpf"uwdrcvt"O"cf f k p i"ugevkqp"; 205:3"vq"tgc f"cu"hqmq y u<

§ 90.381 C-V2X emissions limits."

E/X4Z" Tqcfukfg"Wpkv"*TUWu+" o wuv"eq o rn {" ykvj"vjg"hqmq y k p i" q w v / q h / d c p f" g o k u u k q p u" n k o k v u 0"

*c+"Eqpfwefg"nk o kvu" o gcuwtgf"cv"vjg"cpvgppc"kp r w v" o w u v" p q v" g z e g g f <

*3+"/4; "fD o 1322"m J | "cv"vjg"dcpf"gf i g"*Vjg"dcpf"ku" fghkpgf"kp"ugevkqp"; 20592"qh"vjku"rctv+="-

*4+"/57" fD o 1322"m J | "0"3" o g i c j g t v | "htq o"vjg"dcpf"gf i g="-

*5+/65" fD o l322" m J | "0"32" o g i c j g t v | "h t q o " v j g" d c p f" g f i g=" c p f"

*6+/75" fD o l322" m J | "0"42" o g i c j g t v | "h t q o " v j g" d c p f" g f i g 0"

*d+"T c f k c v g f" n k o k v u<" C m" E/X4Z" U g t x k e g" T U W u" o w u v" n k o k v" t c f k c v g f" g o k u u k q p u" v q"/47" fD o l322" m J | "G K T R" q t" n g u u" q w v u k f g" v j g" d c p f" g f i g u" y j g t g" v j g" d c p f" k u" f g h k p g f" k p" u g e v k q p"; 20592" q h" v j k u" r c t v 0"

Subpart N—OPERATING REQUIREMENTS

3:0A C o g p f" u g e v k q p"; 20637" d { " t g x k u k p i" r c t c i t c r j" * d+ " v q" t g c f" c u" h q n n q y u<"
, , , , , "

*d+"T g p f g t" c" e q o o w p k e c v k q p u" e q o o q p" e c t t k g t" u g t x k e g. " g z e g r v" h q t" u v c v k q p u" k p" v j g" R w d n k e" U c h g v { " R q q n" r t q x k f k p i" e q o o w p k e c v k q p u" u v c p f d { " h c e k n k v k u" w p f g t" E"; 2042" c+*4+*z k+" c p f" u v c v k q p u" n k e g p u g f" w p f g t" v j k u" r c t v" k p" v j g" U O T. " r t k x c v g" e c t t k g t" r c i k p i. " K p f w u v t k c n l D w u k p g u u" R q q n. "442/444" O J | . " q t" E/X4Z 0"

3:0A C o g p f" u g e v k q p"; 20643" d { " c f f k p i" r c t c i t c r j" * f+ " v q" t g c f" c u" h q n n q y u<"

§ 90.421 Operation of mobile station units not under the control of the licensee.

" , , , , , "

*f+"E/X4Z" Q p/D q c t f" W p k v u" n k e g p u g f" d { " t w n g" w p f g t" r c t v"; 7" q h" v j k u" e j c r v g t" o c { " e q o o w p k e c v g" y k v j" c p { " t q c f u k f g" w p k v" c w v j q t k | g f" w p f g t" v j k u" r c t v" q t" c p { " n k e g p u g f" e q o o g t e k c n" o q d k n g" t c f k q" u g t x k e g" u v c v k q p" c u" f g h k p g f" k p" r c t v" 42" q h" v j k u" e j c r v g t 0"

420A C o g p f" u g e v k q p"; 20647" d { " t g x k u k p i" r c t c i t c r j" * f+*32+ " v q" t g c f" c u" h q n n q y u<"

§ 90.425 Station identification."

" , , , , , ""

*f+" , , , , ""

*32+"K v" k u" c" T q c f u k f g" W p k v" * T U W+ " k p" c" E/X4Z" u { u v g o 0

Part 95 -Personal Radio Services

V j g" c w v j q t k v { " e k v c v k q p" h q t" r c t v"; 7" e q v k p w g u" v q" t g c f" c u" h q n n q y u<"

Authority: ""69" W 0 U 0 E 0" 376. "525. " c p f" 5290"

430A C o g p f" v j g" u w d v k v n g" h q t" u w d r c t v" N" v q" t g c f" c u" h q n n q y u<"

Subpart L—C-V2X Service On-Board Units"

440A C o g p f" u g e v k q p"; 705323" v q" t g c f" c u" h q n n q y u<"

§ 95.3101 Scope."

V j k u" u w d r c t v" e q p v c k p u" t w n g u" v j c v" c r r n { " q p n { " v q" Q p/D q c t f" W p k v u" * Q D W u+ " v t e p u o k w k p i" k p" v j g" 7 : ; 7 / 7 ; 47" O J | " h t g s w g p e { " d c p f" k p" v j g" E g m w n c t" X g j k e n g" v q" G x g t { v j k p i" U g t x k e g" * E/X4Z+ " * u g g" E"; 20593" q h" v j k u" e j c r v g t+ 0"

450A C o g p f" u g e v k q p"; 705325" d { " t g o q x k p i" v j g" f g h k p k v k q p" h q t" F g f k e c v g f" U j q t v/ T c p i g" E q o o w p k e c v k q p u" U g t x k e g u" * F U T E U+. " c f f k p i" c" f g h k p k v k q p" h q t" E g m w n c t" X g j k e n g" v q" G x g t { v j k p i" U g t x k e g" * E X 4 Z+ " k p" c n r j c d g v k e c n" q t f g t. " c p f" t g x k u k p i" v j g" f g h k p k v k q p" q h" Q p/D q c t f" W p k v" * Q D W+ " v q" t g c f" c u" h q n n q y u<"

§ 95.3103 Definitions, OBUs.

Cellular Vehicle to Everything Service (C-V2X). ""C" u g t x k e g" r t q x k f k p i" h q t" f c v c" v t e p u h g t" d g v y g g p" x c t k q w u" o q d k n g" c p f" t q c f u k f g" v t e p u o k w k p i" w p k v u" h q t" v j g" r w t r q u g u" q h" k o r t q x k p i" v t c h h k e" h n q y. " j k i j y c { " u c h g v { " c p f" r g t h q t o k p i" q v j g t" k p v g m k i g p v" v t e p u r q t v c v k q p" h w p e v k q p u 0" U g g" E"; 209" q h" v j k u" e j c r v g t" h q t" c" o q t g" f g v c k n g f" f g h k p k v k q p 0"

On-Board Units (OBUs). "QDWu"ctg"nqy/rqygt"fgxkegu"qp"Xgjkengu"vjcv"vtcpuhgt"fcvc"vq"tqc fukfg"wpkvu"qt"
qvjgt"QDWu"kp"vjg"Egmnwnc"Xgjkeng"vq"Gxgt{vjkipi"Ugtxkeg"*E/X4Z+"*ugg"ÈÈ"; 20592/; 205:5"qh"vjku"
ejcrvgt+."vq"ko rtxqg"vtchhke"hnqy"cpf"uchgv{."cpf"ht"qvjgt"kpvgmki gpv"vtcpurqtvckqp"u{uvgo"rwrqugu0""Ugg"
È"; 209"qh"vjku"ejcrvgt0"

" , , , , ,

460A C o g p f " u g e v k q p " ; 705383 " d { " t g x k u k p i " r c t c i t c r j " * c + " v q " t g c f " c u " h q m n q y u < "

§ 95.3161 OBU transmitter certification.

*c+"Gcej"Qp/Dqctf"Wpkv"QDW+"vjcv"qrgtcvgu"qt"ku"kpvpfpgf"vq"qrgtcv"kp"E/X4Z" o wuv"dg"egtkhkgf"kp"
ceeqtfcpeg"ykvj"vjku"uwdrcvt"cpf"uwdrcvt"L"qh"rctv"4"qh"vjku"ejcrvgt0"

" , , , , ,

470A C o g p f " u g e v k q p " ; 705385 " v q " t g c f " c u " h q m n q y u < "

§ 95.3163 OBU frequencies.

E/X4Z"Ugtxkeg"QDWu"ctg"rgt okvgtf"vq"qrgtcv"kp"vjg"7: ; 7/7; 47"O J | "dcpf0"

480A C o g p f " u g e v k q p " ; 705389 " d { " t g x k u k p i " r c t c i t c r j " * c + " v q " t g c f " c u " h q m n q y u < "

§ 95.3167 OBU transmit power limit. "

*c+"Vjg"oczko"ow"gswxncgp"kuqvtqrkecnn{"tcfkcvgf"rqygt"*GKTR+"ht"xgjkewnct"cpf"rqtvcdng"E/X4Z"QDW"
vtcpu okvgt"v{rgu"ku"nk okvgt"vq"55"fd o 0"

*d+"Vjg"rqygt"nk okv"kp"rctci tcrj"*c+"qh"vjku"ugevkqp" o c {"dg"tghgtgpegf"vq"vjg"cpvgppc"kprrwv."uq"vjcv"ecding"
nquugu"ctg"vcmgp"kpvt"ceeqpvt0"

*e+"Hqt"rwrqugu"qh"vjku"ugevkqp."c"rqtvcdng"wpkv"ku"v"vtcpu okvki"fgxkeg"fguki pgf"vq"dg"wugf"uq"vjcv"vjg"
tcfkcvki"uvtwevtg"*u+"qh"vjg"fgxkeg"kulctg"ykvj"kp"42"egpvk okvgtu"qh"vjg"dqf{"qh"vjg"wugt0"

490A C f f " u g e v k q p " ; 70539 ; " v q " u w d r c t v " N " c u " h q m n q y u < "

§ 95.3179 Unwanted emissions limits.

E/X4Z"Qp"Dqctf"Wpkvu" o wuv"eq o rn {" ykvj "vjg"hqmqy kpi "qvw/qh/dcpf" o kuukqpu"nk okvu0"

Eqpfwevgf"nk okvu" o gcuwtgf"cv"vjg"cpvgppc"kprrwv"ujcnn"pqv"gzeggf"<

*c+"4: ; fd o 1322"m J | "cv"vjg"dcpf"gf ig"*Vjg"dcpf"ku"fgkpgf"kp"ugevkqp" ; 705385"qh"vjku"rctv0+=""

*d+"/57"fd o 1322"m J | "0"3" o g i c j g t v | " h t q o " v j g " d c p f " g f i g = "

*e+"/65"fd o 1322"m J | "0"32" o g i c j g t v | " h t q o " v j g " d c p f " g f i g = " c p f "

*f+"/75"fd o 1322"m J | "0"42" o g i c j g t v | " h t q o " v j g " d c p f " g f i g 0 "

4: 0A C o g p f " u g e v k q p " ; 7053: ; " v q " t g c f " c u " h q m n q y u < "

§ 95.3189 OBU technical standard.

*c+"E/X4Z"Ugtxkeg"QDW"vtcpu okvgt"v{rgu"qrgtcvki"kp"vjg"7: ; 7/7; 47"O J | "dcpf"ujcnn"eq o rn {" ykvj "vjg"
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urgekkecvkqpu"gzegrv"y jgtg"vjgug"twngu"cpf"tg i wncvqpu"vcmg"rtgefgpeg0"

*d+"Vjg"uvcpfctfu"tgswtgf"kp"vjku"ugevkqp"ctg"kpqtrqtcv"gd{"tghgtgpeg"kpvt"vjku"ugevkqp"ykvj"vjg"cr rtqxcn"
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ku"cxckncdng"ht"kpurgevq"cv"vjg"Hgfgtcn"Eqo o wpkecvkqpu"Eqo o kuukq. 667"34vj"Uvtggv"U Y 0."

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kpurgevq"cv"vjg" Pcvkqpcn" Cte jxgu"cpf" Tgeqtfu" C f o k p k u v t c v k q p " * P C T C + 0 " " H q t " k p h q t o c v k q p " q p " v j g "
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APPENDIX C

Cost Benefit Analysis

30A Kp"vjku"cr rrgpfkz."yg"uwr rrg o gpr"qwt"gtctngt"gz rqukvkp"gz rncpkpi"qwt"guvk o cvg"qh"vjg" xcnwg"qh"wpnkegpugf"urgetvto"kp"vjg"nqygt"67"ogicjgtv|0""Yg"pqvg"vjcv"qwt"dcugnkp"guvk o cvkqp"ku" eqpugtxcvxg."cu"kv"ku"nk o kvgf"vq"gz rgevgf"dgpgkhvu"uvtvkpi"kp"4245"cpf"qpn{"wr"vq"4247."vjgtgd{"ki"pqtkpi" nkmgn{"uwdvcpvkc"dgpgkhvu"dg{qpf"42470""Vjg"guvk o cvg"cuuq"cuuw o gu"vjcv"wpnkegpugf"urgetvto"ocfg" cxkncdng"kp"vjg"6 GHz Report and Order"yknm"dg"wugf"cu"swkenn{"cpf"jgcxkn{"cu"vjg"urgetvto"ocfg" cxkncdng"jgtg"kp"urkvq"qh"oqtg"uvtkpi"gpv"rqygt"nk o kvcvkqpu"cetquu"vjg"8"IJ|"dcpf"cpf"kvu"rvgpvcmm{" nqpig"cfqrkqp"vk o guecng03""Cf fkvkqpcnm{"."eq o ogpvgtu"jcxg"pqvgf"vjcv"wpnkegpugf"urgetvto"kp"vjg"nqygt" 67"ogicjgtv|"nkmgn{"qhhgtu"pw o gtqwu"dgpgkhvu"vq"eqpuw o gtu."yjq"wg"Yk/Hk"vq"qhh/nqcf"vtchhke"cpf"dgpgkhv" htq o "vjg"xctkqwu"cr rnkcevkqpu"vjcv"Yk/Hk"gpdcngu"kp."c o qpi"qvjgt"ctgcu."ci"tkewnvtg."gfweckqp."cpf" o gfkckp0"Jqy"gxgt."fwg"vq"ncem"qh"swcpvkhhkcdng"fcvc"qp"vjgug"xctkqf."uq o gvk o gu"qpn{/pcuegpv"dgpgkhvu." yg"ctg"wpdcng"vq"eqpuvtwev"tgnkcdng"swcpvkcvkxg"guvk o cvgu"qh"cuuqekcvgf"uwrnwu04""Jqy"gxgt."yg"hkpf"vjcv" vjg"cf fgf"IFR"cuuqekcvgf"ykvj"vjg"vtcpuvevkqpu"dgvggp"KURu"cpf"vjgt"ewuvq o gtu"ctg"uwdvcpvkc."gxgp" yjkn"gzewfkpi"vjg"cf fkvkqpcn"geppq o ke"xcnwg"qh"Yk/Hk"uwr rrtvgf"cevkxkvku"vq"eqpuw o gtu0"

40A Yg"ecnewncvg"vjg"eqpvtkdvwkq"vq"IFR"qh"vjg"wpnkegpugf"70;"IJ|"urgetvto"wukpi"vyq" cr rrtqcejgu"vjcv"guvk o cvg"vjg"rtgugpv"xcnwg"qh"cf fkvkqpcn"Yk/Hk"vtchhke"htq o "pg y"vtcpuvevkqpu"dgvggp"KURu" cpf"vjgt"ewuvq o gtu"qxgt"vjg"rgtkqf"4245/424705""kp"qwt"dcugnkp"o qfgn."yg"cuuw o g"vjcv"vjg"kpetgcug"kp" vtchhke"ku"dcugf"qp"vjg"kgc"vjcv"vjg"cf fkvkqpcn"67"ogicjgtv|"qh"70;"IJ|"urgetvto"yknm"gpdcng"Yk/Hk"wgutu" qh"vjg"406"IJ|"70372/70472*W/PKK/3+."cpf"70947/70:72"IJ|"*W/PKK/5+."cpf"8"IJ|"dcpfu"vq"ceeguu"cp" cf fkvkqpcn"382/o gicjgtv|"ejcppgn"eq o rctgf"vq"vjg"ugxgp"vjg{"yqwnf"qvjgt ykug"jcxg."cp"cf fkvkqpcn":2/ o gicjgtv|"ejcppgn"eq o rctgf"vq"vjg"38"vjg{"yqwnf"qvjgt ykug"jcxg."vyq"cf fkvkqpcn"62/o gicjgtv|"ejcppgnu" eq o rctgf"vq"vjg"56"vjg{"yqwnf"qvjgt ykug"jcxg."cpf"vjgtg"cf fkvkqpcn"42/o gicjgtv|"ejcppgnu"eq o rctgf"vq" vjg"93"vjg{"yqwnf"qvjgt ykug"jcxg06""Cf fkvkqpcn{"dgcwug"hwvwtg"Yk/Hk"vtchhke"ku"gz rgevgf"vq"qwrnceg" ecrcekf{."yg"cuuw o g"vjcv"vjg"cf fkvkqpcn"70;"IJ|"urgetvto"yknm"dg"hwvwtg{"wugf"d{"eqpuw o gtu."k o rn{kpi"vjcv" yg"ecp"guvk o cvg"cf fkvkqpcn"vtchhke"htq"ejcppgnu"qh"c"urgetvto"dcpf ykfvj"cu"c"rtqrvtkq"qh"pgy"Yk/Hk" ejcppgnu"vjcv"vjku"urgetvto"yqwnf"etgcvg"tgnckxg"vq"gzkvkpi"ejcppgnu"qh"vjcv"dcpf ykfvj07"

50A Traffic Increase Calculation0"Qwt"dcugnkp"cuuw o rvkqpu"k o rn{"vjcv"vjg"ugxgp"382/

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4"Vjg"enquguv"gz o rng"kp"vjg"geppq o ke"nkvgtcvwtg"vjcv"eqwnf"jgnr"rww"ce"eqpuw o gtu"egpvtkc"xcnwg"qp"gej"ID"ku"c"4238" uwwf {"d {"Pgxq."Vwtpgt"cpf"Yknkc o u."dww"vjg"vgzv"fqgu"pqv"rtqxkf"gpqwi"j"lphqt o cvkqp"htq"vjg"Eq o o kuukqp"vq" tgetcvg"kvou"tguvnu"cpf"kvu"fcvc"ku"qww"fcvgf0"Cxkx"Pxq."Lqjp"N0"Vwtpgt."cpf"Lqpcv"jcp"Y0"Yknkc o u."Usage-based pricing and demand for residential broadband." : 6"Geppq o gvtcke"4238+*Pgxq"gv"cn0"Uvwf {"+0""Vjg"Pxq"gv"cn0"Uvwf {" fxxkfgu"kvu"uc o rng"qh"jqwug"jqnfu"kpq"38.:29"v {"rgu"cpf"ykvj"c"fkhhgtgpv"fqmct"xcnwg"htq"ID"eqpuw o gtu"htq"gej." ixgp"c"fcvc"fqy"pqcf"urggf"cpf"ce"eqpuw o rvkqp"ngxgn"qh"fcvc0""Pgxq"gv"cn0"Uvwf {"."cv"645."64:0""Jqy"gxgt."vjg"Pxq"gv" cn0"Uvwf {"fqgu"pqv"rtqxkf"vjgug"xcnwg"qt"lphqt o cvkqp"qp"gxgt {"v {"rg."uq"vjg"Eq o o kuukqp"ecppqv"fgvgt o kpg"jqy" cf fkvkqpcn"xcnwg"yqwnf"kpetgcug"ykvj"o qtg"fcvc"eqpuw o rvkqp0""Hwtv"jgt."vjg"uwwf {"ku"dcugf"qp"fcvc"htq o "Oc {"4233"vq" Lwpg"4234."y jgtg"eqpuw o gtu"xcnwg"htq"fcvc"yqwnf"dg"nqygt"fwg"vq"cn"nqygt"swcnk {"cpf"xctkqf {"qh"qpnkp"cevkxkvku"cpf" cr rnkcevkqpu"cpf"nqygt"hc o knkctk {"ykvj"vgej"pqni {"0""Hqt"vjg"o quv"eq o o qp"v {"rg"qh"eqpuw o gtu"4:."qh"vjg"uc o rng." Pgxq"gv"cn0"Uvwf {"."cv"64;/652."cpf"v {"rg/urgetvto"rctc o gvgtu."Pgxq"gv"cn0"Uvwf {"."Uwr rrg o gpr"cv"33+."cuuw o kpi"cp" wpnk o kvgf"rncp."cpf"ykvj"3"IDru"fqy"pqcf"urggf"hcuvgt"urggf"u"kp"etgcug"fcvc"eqpuw o rvkqp"kp"vjg"o qfgn+."vjg" gz rgevgf"ID"eqpuw o gtu"o qpvn {"yqwnf"dg"7409"ID"sgswckqp"4."Pgxq"gv"cn0"Uvwf {"."cv"647+0""Yg"guvk o cvg"vjcv"vjg" cxgtc o g"jqwug"jqnf"cntcfc {"eqpuw o gtu"34408"ID"kp"4239*infra"Hi i wtg"E/4+."uwi i guvki"vjcv"vjg"Pxq"gv"cn0"Uvwf {"jcu" dgpg"qwrcegf"d {"ejcpi"gu"kp"vgej"pqni {"cpf"eqpuw o gtu"vcuug0"

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6"Supra"rctc0"356"6 GHz Report and Order."57"HEE"Tel"cv"5;24."Vcdng"80"

7"Supra"rctc0"3560"

tgxgpwgu."uq"y g"o wvkrn{"v j g o "d {"v j g" r t q l g e v g f" t c v k q" q h" W0U0" Y k/Hk" v t c h h k e" q x g t" v q v c n" W0U0" K p v g t p g v" v t c h h k e" 32" Y g" o w v k r n {" v j g" t g u w n v k p i" r t q f w e v" d {" : 0 6 ' " v q" h k p f" v j g" c f f k v k q p c n" I F R" r t q f w e g f" d {" t g r w t r q u k p i" v j g" 7 0 ; " I J | " u r g e v t w o 0" " Q x g t" v j g" { g c t u" 4 2 4 5 / 4 2 4 7 . " v j k u" c o q w p v u" v q" c" r t g u g p v" x c n w g" q h" & 5 6 0 : " d k n n k q p" w u k p i" c" 9 ' " f k u e q w p v" t c v g" c p f" c" r t g u g p v" x c n w g" q h" & 5 ; " d k n n k q p" w u k p i" c" 5 ' " f k u e q w p v" t c v g 0" " Y g" r t q x k f g" f g v c k n g f" e c n e w n c v k q p u" k p" H k i w t g" E / 4" t q y u" * f + " v q" * j + 0

80A Hqt"v j g" u g e q p f" c r r t q c e j . " y g" q d v c k p" v y q" c n v g t p c v k x g" g u v k o c v g u" q h" v j g" r t k e g" r g t" I D" h q t" h k z g f" d t q c f d c p f" d c u g f" q p" f k h h g t g p v" d c u g n k p g u" h q t" v j g" c x g t c i g" h k z g f" d t q c f d c p f" r t k e g 0" " Y g" o w v k r n {" g c e j" q h" v j g u g" d {" g u v k o c v g u" q h" v j g" k p e t g c u g" k p" W0U0" Y k/Hk" v t c h h k e" k p" I D u" v q" h k p f" v j g" c f f k v k q p c n" I F R" r t q f w e g f" d {" t g r w t r q u k p i" v j g" 7 0 ; " I J | " u r g e v t w o 0" " V j g" h k t u v" d c u g n k p g" r t k e g" k u" & 2 0 5 6 1 I D . " v j g" c x g t c i g" h q t" h k z g f" W0U0" d t q c f d c p f" r n c p u" g u v k o c v g f" d {" v j g" E q o o k u u k q p" k p" k u" 4 2 3 : " K p v g t p c v k q p c n" D t q c f d c p f" F c v c" T g r q t v" * K D F T + 0 3 3" " V j k u" r t k e g" f g t x g u" h t q o" d t q c f d c p f" r n c p" f c v c" e q m g e v g f" k p" 4 2 3 9 . " u q" y g" c f l w u v" k v" h q t y c t f" w u k p i" c" r t q l g e v k q p" q h" v j g" E q p u w o g t" R t k e g" K p f g z" * E R K + " h q t" o k p v g t p g v" u g t x k e g u" c p f" g n g e v t q p k e" k p h q t o c v k q p" r t q x k f g t u 0 3 4" " D g e c w u g" v j g" c f l w u v g f" p w o d g t" t g h n g e v u" r g t" j q w u g j q n f" r t k e k p i . " y g" f k x k f g" k v" d {" c" r t q l g e v k q p" q h" v j c v" { g c t o u" t g u k f g p v k c n" v t c h h k e" r g t" j q w u g j q n f" v q" t g h n g e v" c" r g t" f q m c t" r g t" I D" r t k e g 0 3 5" " Y g" q d v c k p" v j g" u g e q p f" d c u g n k p g" r t k e g" h t q o" v j g" 4 2 4 2" W t d c p" T c v g" U w t x g { " f c v c" v j c v" v j g" E q o o k u u k q p" e q m g e v u" h q t" W p k x g t u c n" U g t x k e g" r w t r q u g u 0 3 6" " K p" v j c v" f c v c . " v j g" c x g t c i g" o q p v j n { " r t k e g" k u" & 9 ; 0 8 9" r g t" o q p v j" r g t" j q w u g j q n f . 3 7" y j k e j" y g" c f l w u v" w u k p i" q w t" r t q l g e v k q p u" q h" v j g" K p v g t p g v" E R K" c p f" v j g p" f k x k f g" d {" q w t" r t q l g e v k q p" q h" t g u k f g p v k c n" K p v g t p g v" v t c h h k e" v q" r t q l g e v" h w w t g" r t k e g u" r g t" I D 0" " J q y g x g t . " y g" p q v g" v j c v . 0 C V (V" y c u" q x g t u c o r n g f" f w g" v q" c" e j c p i g" k p" k u" t g r q t v k p i" h q t" H q t o" 6 9 9" c p f" W t d c p" T c v g" U w t x g { " r w t r q u g u 0" k p" v j k u" g f k v k q p" q h" v j g" W t d c p" T c v g" U w t x g { . " u q" v j c v" y g" r t g h g t" v j g" K D F T / d c u g f" g u v k o c v g" k p" q w t" u g e q p f" c r r t q c e j 0 3 8

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32" Y g" w u g" E K U E Q" g u v k o c v g u" q h" 4 2 3 9" c p f" 4 2 4 4" E K U E Q" v q v c n" K p v g t p g v" c p f" Y k / H k" v t c h h k e" c p f" g z v t c r q n c v g" v j g u g" p w o d g t u" v q" v j t q w i j" { g c t " 4 2 4 7 0" E K U E Q . " X P K" E q o r n g v g" H q t g e c u v" J k i j n k i j v u . " W p k v g f" U v c v g u" / " 4 2 4 4" H q t g e c u v" J k i j n k i j v u . c v " 3 / 4 " * 4 2 3 : + . " j w r u < l y y y / l e k u e l e q o l e l f c o l o l g p a w u l u q n w k q p u l u g t x k e g / r t q x k f g t l x p k / h q t g e c u v / j k i j n k i j v u l r f h l W p k v g f a U v c v g u a P g v y q t m a E q p p g e v k p u 0 r f h 0" "

33" International Comparison Requirements Pursuant to the Broadband Data Improvement Act." I P" F q e m g v" P q 0 3 9 / 3 ; ; . " U k z v j" T g r q t v . " 5 4" H E E" T e f ; ; 9 : . " 3 2 5 7 . " V c d n g" 5 0

34" Y g" n k p g c t n { " g z v t c r q n c v g" h t q o" v j g" c x g t c i g" c p p w c n" E R K" k p" o k p v g t p g v" u g t x k e g u" c p f" g n g e v t q p k e" k p h q t o c v k q p" r t q x k f g t u 0 3 4" W0U0" D w t g c w" q h" N c d q t" U v c v k u v k e u . " F c v c d c u g u . " V c d n g u" (" E c n e w n c v q t u" d {" U w d l g e v . " [jwru<l fvcvclduul>iqxlvk o gugtkeuEWWT2222UGGG25Aqvwrvwaxky ?fcvc *ncuv*xkukvgf"Qev0"49."4242+0](#)

35" C e e q t f k p i" v q" c" u w v f { " d {" V g n g e q o" C f x k u q t { " U g t x k e g u . " N N E . " 6 5 0 3 4 ' " q h" v t c h h k e" k u" c e e g u g f" v j t q w i j" v j g" j q o g 0" " V j w u . " y g" q d v c k p" t g u k f g p v k c n" K p v g t p g v" v t c h h k e" d {" o w v k r n { k p i" v q v c n" K p v g t p g v" v t c h h k e" d {" 6 5 0 3 4 ' 0" " N g w g t" h t q o" C n g z" T q { v d i c v . " E q w p u g n" v q" Y k / H k" C n n k c p e g . " v q" O c t n g p g" J 0" F q t v e j . " U g e t g v c t { " H E E . " Y V" F q e m g v" P q 0 3 : / 4 ; 7 . " C w c e j 0 4" c v " : 6" * h k n g f" Q e v 0 3 4 . " 4 2 3 : + * Y k / H k" C n n k c p e g" Q e v 0 3 4 . " 4 2 3 : " E x P a r t e" + 0" " V q" f g t x g" v j g" o q p v j n { " t g u k f g p v k c n" v t c h h k e" r g t" j q w u g j q n f . " y g" f k x k f g" W0U0" t g u k f g p v k c n" v t c h h k e" d {" v j g" p w o d g t" q h" j q w u g j q n f u" u g t x g f" d {" h k z g f" d t q c f d c p f" K p v g t p g v . " g u v k o c v g f" h t q o" F g e g o d g t" 4 2 3 8" v q" L w p g" 4 2 3 ; " k p" v j g" H k z g f" D t q c f d c p f" H q t o" 6 9 9" c p f" n k p g c t n { " g z v t c r q n c v g f" v q" 4 2 4 7 0

36" H E E . " W t d c p" T c v g" U w t x g { " F c v c" c p f" T g u q w t e g u . " [jwru<lly y y/heel>iqxlgaeppq o keu/cpcn { vkeulkp fwuvt { /cpcn { uku/ fxxkukplwtdcp/tcvg/uwtxg { /fcvc/tguqwtegu *ncuv*xkukvgf"Qev0"49."4242+0](#)

37" V j k u" k u" c" y g k i j v g f" c x g t c i g" w u k p i" y g k i j v u" k p e n w f g f" y k v j" v j g" r w d n k u j g f" f c v c 0" " H E E . " W t d c p" T c v g u" U w t x g { " D t q c f d c p f" U w t x g { " T g u w n v u" * 4 2 4 2 + . " [jwru<lly y y/heel>iqxlvkngl39822lfqy pncqf0" V j g" y g k i j v u" c t g" c" e q o d k p c v k q p" q h" u c o r n k p i" y g k i j v u . " p q p t g u r q p u g" y g k i j v u . " y g k i j v u" v q" e q t t g e v" h q t" t g u r q p f g p v u" t g r q t v k p i" o w v k r n g" r n c p u . " c p f" y g k i j v u" v q" e q t t g e v" h q t" v j g" p w o d g t" q h" r q v g p v k c n" u w d u e t k d g t u" g c e j" t g u r q p f g p" j c u 0" " H E E . " 4 2 4 2" W t d c p" T c v g" U w t x g { " o" H k z g f" D t q c f d c p f" U g t x k e g" C p c n { u k u" * 4 2 4 2 + . " \[jwru<lly y y/heel>iqxlvkngl39;33lfqy pncqf0\]\(#\)](#)

38" H E E . " W t d c p" T c v g" U w t x g { " D t q c f d c p f" U w t x g { " T g u w n v u" * 4 2 4 2 + . " [jwru<lly y y/heel>iqxlvkngl39822lfqy pncqf0](#)

90A Vq"guvk o cvg"vjg"kpetgcug"kp"W0U0" Yk/Hk"vtchhke." y g"hktuv"gzvtrqncvg"W0U0" Yk/Hk"vtchhke"hqt" vjg" { gctu"4245/4247" wukpi "Ekueq" guvk o cvgu"qh" Yk/Hk"vtchhke"kp"4239"cpf"4244039" Y g"hkpf"vjg"cf fkvkqpcn" vtchhke"rgt" { gct"d" { o wnvkrn { kpi "vjg"Ekueq" guvk o cvgu" d { :06 ' 0" Y g"vjgp" o wnvkrn { "vjg"tguwnvki"pw o dgt"d { qwt"rgt"fqmct"rgt" I D"rtkeg" guvk o cvgu"vq"qdvckp"vjg"eqpvtkdwvkqp"vq" I FR0" Wukpi "vjg"KDFt"dcugnkp"rtkeg." qxgt"vjg" { gctu"4245/4247." vjku" c o qwpvu"vq" c" r t g u g p v" x c n w g" q h" & 3 9 0 4" d k n n k q p" w u k p i" c" 9 ' ' f k u e q w p v" t c v g" c p f" c" r t g u g p v" x c n w g" q h" & 3 ; 0 5" d k n n k q p" w u k p i" c" 5 ' ' f k u e q w p v" t c v g" C n v g t p c v k x g n { . " w u k p i" v j g" W t d e p" T c v g" U w t x g { " d c u g n k p g." q x g t" v j g" { g c t u" 4 2 4 5 / 4 2 4 7 . " v j k u" c o q w p v u" v q" c" r t g u g p v" x c n w g" q h" & 5 4 0 9" d k n n k q p" w u k p i" c" 9 ' ' f k u e q w p v" t c v g" c p f" c" r t g u g p v" x c n w g" q h" & 5 8 0 8" d k n n k q p" w u k p i" c" 5 ' ' f k u e q w p v" t c v g" Y g" r t q x k f g" f g v c k n g" f" e c n e w n c v k q p u" k p" H k i w t g" E / 4 " t q y u" * c + " v q" * e + " v q i g v j g t" y k v j " t q y u" * k + " v q" * y + 0 "

:0A Robustness of baseline analysis0"Kp"cf fkvkqp"vq"cr rn { kpi "fkhhgtgpv"tgxgpwg"rtqlgevqpu"cpf" fkueqwpv"tcvgu"vq"qwt"dcugnkp"vtchhke"cuuw o rvkqpu." y g"jcxg"cnug"hqwpf"vjcv"qwt"cpnc { uku"ku"tqdwu"vq"ugxgtcn" xctckvkqpu"qh"qwt" o qfgn0"Kp"rctvkewnt." y g"jcxg"tgrgcvgf"qwt"ecnewncvqpu"ceeqwvki" hqt"cf fkvkqpcn" W/PKK/ 4"ejcppgnu." vjqi"vj" y g"pqvg"vjcv" o quv" Yk/Hk" wug"qewtu" ykvj"vjg"406" I J | . W/PKK/3."cpf" W/PKK/5" dcpfu03:" Cu"kp"qwt"dcugnkp" o qfgn." vjku"xctckvkqpu"cuuw o gu"vjcv"vjg"8" I J | "ejcppgnu" y qwnf"dg" wugf"cv"vjg"vk o g"vjcv" 70;" I J | "urgetw o" y qwnf"cnug"dgeq o g"cxckncdng0" Cu" y g"ujqy" dngqy . "kh" y g"cnvgtpcvkg" { "cuuw o g" f"vjcv"8" I J | "urgetw o" y qwnf"pqv"dg"cxckncdng"fwtkpi"4245/4247."qwt" guvk o cvgu"qh"vjg"eqpvtkdwvkqp"qh"70;" I J | " urgetw o" hqt"wpnkegpugf" wug"tkug"uwduvcpkcm { 0 "

;0A Vq"hwvtjgt"ceeqwv" hqt"rqvgpvcn" wucig"qh"vjg" W/PKK/4" dcpf." y g"uwr"rqug."kpuvgc"vjcv"vjgtg" ctg"kpvkcn { "gkijv" /ugxgp"42/ ogicjgtv| "ejcppgnu." hqtv" /vq"62/ ogicjgtv| "ejcppgnu." vjg"v" /2/ ogicjgtv| " ejcppgnu."cpf"pkpg"382/ ogicjgtv| "ejcppgnu3:" yjkej"tgfwegu"vjg"dcugnkp" y gkijvgf"vtchhke"kpetgcug"htq o" tgrwtrqkpi"70;" I J | "urgetw o" vq"809 ' . "cu"qr"rqugf"vq" :06 ' "kp"qwt"dcugnkp" o qfgn042" Wukpi" qwt"nqy"guv" guvk o cvg"qh"vjg"xcnwg"qh"vjku"vtchhke"ngcfu"vq" c" r t g u g p v" x c n w g" I F R" e q p v t k d w v k q p" q h" & 3 5 0 8" d k n n k q p" q x g t" v j g" { g c t u" 4 2 4 5 / 4 2 4 7 0 4 3 "

320A Kh" y g"kpuvgc"cuuw o g" f"vjcv"8" I J | "urgetw o" y qwnf"pqv"dg"cxckncdng"fwtkpi"4245/4247." y jkng"uwr"rqkpi"vjcv" W/PKK/4"ejcppgnu" y qwnf"dg"hwnt { "wugf"fwtkpi"vjku"vk o ghtc o g."vjg" y gkijvgf"vtchhke" kpetgcug"htq o" tgrwtrqkpi"70;" I J | "urgetw o" i"qgu"wr"vq"470; ' 0" Wukpi" qwt"nqy"guv" guvk o cvg"qh"vjg"xcnwg"qh" vjku"vtchhke"ngcfu"vq" c" r t g u g p v" x c n w g" I F R" e q p v t k d w v k q p" q h" & 7 5 0 3" d k n n k q p" q x g t" v j g" { g c t u" 4 2 4 5 / 4 2 4 7 0 0 " V j g" y g k i j v g f" v t c h h k e" k p e t g c u g" c p f" I F R" e q p v t k d w v k q p" y q w n f" t k u g" g x g p" h w t v j g t" k h" y g" g z e n w f g f" w u c i g" q h" W / P K K / 4 " e j c p p g n u "

330A Hkpcn { . "kp"qwt"dcugnkp"cpnc { uku." y g"cuuw o g" f"vjcv"70;" I J | "urgetw o" y qwnf"dg"hwnt { "wugf" d { "eqpuw o gtu."ngcfkpi"vq"qwt"dcugnkp" y gkijvgf"vtchhke"kpetgcug"qh" :06 ' 044" Jqy"gxgt."cu" y g"rtgxkqwn { "

39"EKUEQ" guvk o cvgu"vjcv" Wpkvgf"Uvcvgu"Kpvgtpgv"vtchhke" y knn"dg"40:"gzcd { vgu"GD+"rgt"fc { "qt"3.244"GD"rgt" { gct+d { " 4244."wr"htq o" ; 46"rgvcd { vgu"RD+"rgt"fc { "qt"559048"GD"rgt" { gct+kp"42390" C f f k v k q p c n n { . " E K U E Q" g u v k o c v g u" v j c v" v j g" W p k v g f" U v c v g u" h k z g f l" Y k / H k" t c v k y" c u" 7 2 0 6 ' " q h" v q v c n" K p v g t p g v" v t c h h k e" k p" 4 2 3 9 . " c p f" y k n n" d g" 7 8 0 8 ' " q h" v q v c n" K p v g t p g v" v t c h h k e" d { " 4 2 4 4 0" E K U E Q . " X P K" E q o r n g v g" H q t g e c u v" J k i j n k i j v u . " W p k v g f" U v c v g u" / " 4 2 4 4" H q t g e c u v" J k i j n k i j v u . " c v" 3 / 4 * 4 2 3 : + 0 "

3:"6 GHz Report and Order."57"HEE" Tef"cv"5; 59."p0824" *o o quv" wug"qewtu" y kvj"kp"vjg"40622/406:507" I J | " d c p f . " v j g" 7 0 3 7 2 / 7 0 4 7 2" I J | " W / P K K / 3" d c p f" c p f" v j g" 7 0 9 4 7 / 7 0 : 7 2" I J | " W / P K K / 5" d c p f o + 0 "

3:"Urgekhkecn { . " y g" k p e n w f g" c f f k v k q p c n" W / P K K / 4" e j c p p g n u" v q i g v j g t" y k v j" v j q u g" n k u v g f" k p" V c d n g" 8" q h" v j g" 6" G H z R e p o r t a n d O r d e r" c u" h q m q y u 0 " Y g" k p e n w f g" 4 2 / o g i c j g t v | " e j c p p g n u" 7 4 . " 7 8 . " 8 2 . " 8 6 . " 3 2 2 . " 3 2 6 . " 3 2 . " 3 3 4 . " 3 3 8 . " 3 4 2 . " 3 4 6 . " 3 4 . " 3 5 4 . " 3 5 8 . " 3 6 2 . " c p f" 3 6 6 0 " Y g" k p e n w f g" 6 2 / o g i c j g t v | " e j c p p g n u" 7 6 . " 8 4 . " 3 2 4 . " 3 3 2 . " 3 3 . " 3 4 8 . " 3 5 6 . " c p f" 3 6 4 0 " Y g" k p e n w f g" : 2 / o g i c j g t v | " e j c p p g n u" 7 : . " 3 2 8 . " 3 4 4 . " 3 5 : 0 " Y g" c n u q" k p e n w f g" 3 8 2 / o g i c j g t v | " e j c p p g n u" 7 2 " c p f" 3 3 6 . " v j g" h q t o g t" q h" y j k e j" k u" e q o r t k u g f" q h" d q v j" W / P K K / 3" c p f" W / P K K / 5" u r g e t w o 0 "

42" Y g" q d u g t x g" v j c v" W / P K K / 4" f g x k e g u" o w u v" g o r n q" { f { p c o k e" h t g s w p e { " u n g n e v k q p" v q" r t q v g e v" h g f g t c n" t c f c t" q r g t c v k q p u" c p f" v t c p u o k v" r q y g t" e q p v t q n" v q" r t q v g e v" v j g" G c t v j" g z r n q t c v k q p" u c v g n k v g" u g t x k e g . " n g c f k p i" v q" n q y g t" w u c i g" q h" v j g u g" e j c p p g n u" v j c p" v j q u g" k p e n w f g" k p" q w t" d c u g n k p g" o q f g n 0 " S e e" E 0 H 0 T 0 E " 3 7 0 6 2 9 * j + 0 "

43" Vjku" hkiwtg"ku"dcugf"qp"qwt"KDFt"rtkeg"rgt" I D" guvk o cvg"cpf" c"9 ' "fkueqwpv"tcvg0"

44" Supra" rctcl"3560"

uvcvgf."tgnckzpi"vjkucuuwo rvkqp"fqgu"pqv"ejcpig"qwt"hkpfkpiu⁴⁵"Hqt"gzco rng."uwr rqug"vjcv."
eqpugtxcvkxgn{."vjg"kpctgcug"kp"vtchhke"ygtg"qpn{"3' 0""Wukpi"qwt"nqyguv"guvko cvgu"qh"vjg"xcnwg"qh"vjkuc"
vtchhke"uvknn"ngcfu"vq"c"rtgugpv"xcnwg" IFR"eqpvtkdwvkqp"qh"&4"dknkqp"qxgt"4245/4247."y jkej"ku"uvknn"jkijgt"
vjcp"gzrgevfg"qpg/vk og"vtcpukvkqp"equvu0"

⁴⁵"Supra"pqvg"5870"

Fig. C-2: Benefit Calculations

	Year					Notes		
	2017	2019	2023	2024	2025		2023-2025	
Traffic Projections								
*c+	Vqvcil"Kpigtgvr"Vtchhke" *Dlmlkqpu" I D+	559048		3.37;	3.4; 8	3.655	From CISCO Projections	
*d+	Yl/Hk"Vtchhke" *Dlmlkqpu" I D+			882	964	:46	From CISCO Projections	
*e+	Kpetgcug" Yl/Hk"Vtchhke" *Dlmlkqpu" I D+			78	84	8;	8.4% × (b)	
Revenues Based Analysis								
*f+	Yltgf" Tgxgpwg" * & "Dlmlkqpu"			&4; :	&4; 7	&4; 3	From US Census	
*g+	Yl/Hk" Tgxgpwg" * & "Dlmlkqpu"			&392	&38;	&38:	(d) × (b) / (a)	
*h+	ƒo rcev" * & "Dlmlkqpu." Tgxgpwgu+			&3605	&3604	&3603	8.4% × (e)	
*i+	ƒo rcev." 5 ' "Flueqwpri" * & "Dlmlkqpu." Tgxgpwgu+			&3507	&3502	&3407	(f) / 1.03%^(Year-2021)	
*j+	ƒo rcev." 9 ' "Flueqwpri" * & "Dlmlkqpu." Tgxgpwgu+			&3407	&3308	&320:	(f) / 1.07%^(Year-2021)	
IBDR Based Analysis								
*k+	Wplv"Kpigtgvr"Rtkeg"Ngxgn" *32202"?'3; ; 9+	9807	9903	9907	9908	9908	From CPI	
*l+	Tgukfgpv"Vtchhke" *Dlmlkqpu" I D+	367		722	77;	83:	43.1% × (a)	
*m+	Pw o dgt"qbl"Kpigtgvr" Tgukfgpv" J qwug j qn fu" *Dlmlkqpu+	2032		2034	2034	2035	From Form 477	
*n+	Oqpv j n{ "Tgukfgpv"Rgt" J qwug j qn fu" I D" Wuc i g"	345		568	597	625	(j) / (k) / 12 months	
*o+	Kpigtgvr"Rtkeg"Ngxgn" *32202"?'3; ; 9+ "Rgt" I D"	2084		2044	2043	203;	(i) / (l)	
*p+	Kpigtgvr"Rtkeg"Ngxgn"Rgt" I D" *3022"?'4239+			2058	2055	2053	(m) / Value from 2017	
*q+	Cxgtc i g" Hkzgf" Dtqc f dcp f" Rtkeg" * & i I D+			&2034	&2033	&2032	\$0.34 / GB (From IDBR (2018)) *(n)	
*r+	ƒo rcev" * & "Dlmlkqpu." KFD T+			&80;	&902	&905	&4303	(o) × (c)
*s+	ƒo rcev." 5 ' "Flueqwpri" * & "Dlmlkqpu." Tgxgpwgu+			&806	&806	&807	&3; 05	(p) / 1.03%^(Year-2021)
*t+	ƒo rcev." 9 ' "Flueqwpri" * & "Dlmlkqpu." Tgxgpwgu+			&70;	&709	&708	&3904	(p) / 1.07%^(Year-2021)
URS Based Analysis								
*u+	Kpigtgvr"Rtkeg"Ngxgn" J qwug j qn fu" *3022"?'423; +			3022	3023	3023	(i) / Value from 2019	
*v+	Cxgtc i g" Hkzgf" Dtqc f dcp f" Rtkeg" * & i I D." WTU+			&2045	&2043	&2042	\$79.67 (From URS (2020)) × (s) / (l)	
*w+	ƒo rcev" * & "Dlmlkqpu." WTU+			&340;	&3505	&350:	&6202	(c) × (t)
*x+	ƒo rcev." 5 ' "Flueqwpri" * & "Dlmlkqpu." Tgxgpwgu+			&3403	&3404	&3405	&5808	(u) / 1.03%^(Year-2021)
*y+	ƒo rcev." 9 ' "Flueqwpri" * & "Dlmlkqpu." Tgxgpwgu+			&3304	&320;	&3207	&5409	(u) / 1.07%^(Year-2021)

APPENDIX D

FINAL REGULATORY FLEXIBILITY ANALYSIS

Cu"tgswtgfd{"v"jg"tgiwncvqt{"Hngzdknk{"Cev"qh"3; :2."cu"co gpfgf"THC+.3"cp"Kpkvkn"tgiwncvqt{"Hngzdknk{"Cpcn{"uku"KTHC+"ycu"kpqrtrqtcvgf"kp"Use of the 5.850-5.925 GHz Band."Pqkqeg"qh"Rtqrqguf"Twng"Ocmkpi"NP"GM"Vfemg"3;/35:04"Vjg"Eq o o kuukqp"uqwi jv"y tkwgp"rwdnke"eq o o gpv"qp"v"jg"rtqrqucnu"kp"v"jg"NP"GM."kpenwfkpi"eq o o gpv"qp"v"jg"KTHC0"Vjku"rtgugpv"Kpcn"tgiwncvqt{"Hngzdknk{"Cpcn{"uku"KTHC+"eqphqt o u"v"jg"THC0"5"

A. Need for, and Objectives of, the First Report and Order

30A Vjgtg"ku"i tqy kpi"fg o cpf"ht"Yk/Hk"cpf"qvjgt"wpnkegpugf"cr rnkcevkqpu"ceeguu"vq"o kf/dcpf"urgetw o "vq"rtqxfq"ngy/equv"yktnguu"eqppgevkxk{"kp"eqwvnguu"rtqfwewu"uwgfd{"C o gkcecp"eqpuw o gtu"Vq"o ggv"v"jku"fg o cpf."y g"cfqrvtwnguvq"tgrwtrqug"v"jg"70:72/70: ;7" I J | "rtqvkqp"qh"v"jg"70; " I J | "dcpf."y jkej"y jgp"cf f g f"v"jg"cf lcegpv"urgetw o "cxckncdng"ht"Wpnkegpugf"Pcvkqpcn"Kphqt o cvkqp"Kphtcvtwewwtg"W/PKK+"fgxkegu"dgngy"70:72" I J | ."ykm"cmngy"ht"kpctgcugf"jki j/vj tqwi j rww"dtqfcdcpf"wpnkegpugf"cr rnkcevkqpu"kp"urgetw o "v"jcv"ku"ce"eqtge"eq o rppgpv"qh"v"jg"fc{"øu"wpnkegpugf"gequ{"uvgo"0"CV"v"jg"uc o g"vk o g."y g"tgeqipk|g"v"jcv"v"jg"70; " I J | "dcpf"rnc{u"cp"ko rqtvcpv"tqng"kp"uwr rqtvkpi"kpvgnkigpv"vtcpurqtvcvkqp"u{"uvgo"KVU+"uchgv{/tgnvcgf"vtcpurqtvcvkqp"cpf"Xgjkewnt"eq o o wpkecvkqpu"Vjgtghqg."y g"tgvcvkp"52"o g i c j g t v | "qh"urgetw o "kp"v"jg"70: ;7/70;47" I J | "rtqvkqp"qh"v"jg"70; " I J | "dcpf"ht"uwg"fd{"v"jg"KVU"tcfkq"ugtckeg"0"Kp"cf f kvkqp."y g"tgswtg"KVU"nkegpuggu"vq"vtcpukvqp"kvu"vge j p q n q i {"htq o "v"jg"Fgfkcevgf"Ujqt"Tcpig"Eq o o wpkecvkqpu"FU"TE+"uvcpcfctf"v"jg"EGmwnct"Xgjkeng"vq"Gxgt{v j k p i "E/X4Z+"uvcpcfctf"0"Kp"v"jg"Hwtv j g t "Pqkqeg"qh"Rtqrqguf"Twng o cmkpi "Hwtv j g t "Pqkqeg+."y g"rtqrqug"vq"tguqnxg"v"jg"vko k p i . "rtqefwtgu."cpf"vge j p k e c n " r t c o g v g t u " c u u q e k c v g f " y k v j " v " j g " v t c p u k v q p " q h " v " j g " w r f c v g f " 7 0 ; " I J | " d c p f " r n c p 0 "

40A Vjku"Hktuv"Trgrqv"cpf"Qtfgt"cnug"rtq o qvqu"wpnkegpugf"uwg"qh"v"jg"70:72/70: ;7" I J | "dcpf"cu"uqqp"cu"rquukdng"Y g"cnngy"ko o g f k c v g " c e e g u u " h t " w p n k e g p u g f " k p f q q t " q r g t c v k q p u " c v " u r g e k h g f " n q y " r q y g t " n g x g n u + " c e t q u u " v " j g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f 0 " Y j k n g " v " j g " H k t u v " T g r q t v " c p f " Q t f g t " y q w n f " p q v " r g t o k v " k o o g f k c v g " w p n k e g p u g f " q w v f q q t " q r g t c v k q p u " c e t q u u " v " j g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f . " t g s w g u v u " v q " c m n g y " h t " q w v f q q t " w p n k e g p u g f " q r g t c v k q p u " y q w n f " d g " e q p u k f g t g f " v " j t q w i j " q w t " g z k u v k p i " t g i w n c v q t { " r t q e g u u . " y j k e j " y k m " d g " e q q t f k p c v g f " y k v j " v " j g " P c v k q p c n " V g n g e q o o w p k e c v k q p u " c p f " K p h q t o c v k q p " C f o k p k u v t c v k q p " P V K C + " v q " g p u w t g " v " j c v " h g f g t c n " k p e w o d g p u " c t g " r t q v g e v g f " h t q o " j c t o h w n " k p v g t h g t g p e g 0 " k p " v " j g " H w t v j g t " P q k e g . " y g " r t q r q u g " v q " g u v c d n k u j " v " j g " t w n g u " h q t " h w m " r q y g t " q w v f q q t " w p n k e g p u g f " q r g t c v k q p u " k p " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f 0 "

B. Summary of Significant Issues Raised by Public Comments in Response to the IRFA

50A Vjgtg"ygtg"pq"eq o o gpvu"hnkgf"v"jcv"urgekheccn{"cftguugf"v"jg"twngu"cpf"rqkqegu"rtqrqguf"kp"v"jg"KTHC0"

C. Response to comments by the Chief Counsel for Advocacy of the Small Business Administration

60A Rwtuwcgv"v"jg"U o cmn"Dwukpguu"Lqdu"Cev"qh"4232."y jkej"co gpfgf"v"jg"THC."v"jg"Eq o o kuukqp"ku"tgswtgfd"v"tguurqpf"v"jg"cp{"eq o o gpvu"hnkgf"fd{"v"jg"Ejkg"Eqwpu"gn"ht"CFxqce{"qh"v"jg"U o cmn"Dwukpguu"CF o k p k u v t c v k q p " * U D C + . " c p f " v q " r t q x f k g c " f g v c k n g f " u v c v g o g p v " q h " c p { " e j c p i g " o c f g " v q " v " j g "

³See 7"WOUE"825"Vjg"THC."see 7"WOUE"823"6"834."jcu"dgpp"co gpfgf"fd{"v"jg"U o cmn"Dwukpguu"tgiwncvqt{"Gphqteg o gpv"Hcktpguu"Cev"qh"3; ;8"UDTGHG+.Rwd"0"NO"pq"326/343."Vkvng"KK."332"Uvcv"0:79*3; ;8+0"

⁴See Use of the 5.850-5.925 GHz Band."GV"Vfemg"pq"3;/35:."Pqkqeg"qh"Rtqrqguf"Twng o cmkpi."56"HEE"Te f"34825"423; +*5.9 GHz NPRM+0"

⁵See 7"WOUE"826"

rtqrqugf"twngu"cu"ctguwnv"qh"vjqug"eq o o gpvu06""Vjg"Ejkghe"Eqwpugn"fkf"pqv"hknq"cp{"eq o o gpvu"kp"tguvqpug"vq"vjg"rtqrqugf"twngu"kp"vjku"rtqeggfkipi0"

D. Description and Estimate of the Number of Small Entities to Which Rules Will Apply

70A Vjg"THC"fktgevu"ci gpekgu"vq"rtqxfkg"cf"guetkrvkqp"qh."cpf"y jgtg"hgckudng."cp"guvk o cvg"qh"vjg"pw o dgt"qh"u o cmm"gpvkvkgu"vjcv"oc{"dg"chhgevgf"d{"vjg"rtqrqugf"twngu."kh"cfqrvgf07""Vjg"THC"i gpgtcmm{"fghkpgu"vjg"vgt o"ou o cmm"gpvkv{"o"cu"jcxkp i"vjg"uc o g"o gcpkpi"cu"vjg"vgt o"u"ou o cmm"dwukpguu.o"ou o cmm"qti cpk|cvkqp.o"cpf"ou o cmm"i qxgtp o gpcn"lwtku fkevkqp08""kp"cf fkvkqp."vjg"vgt o"ou o cmm"dwukpguu0"jcu"vjg"uc o g"o gcpkpi"cu"vjg"vgt o"ou o cmm"dwukpguu"eqpegtp0"wpfgt"vjg"U o cmm"Dwukpguu"Cev09""C"ou o cmm"dwukpguu"eqpegtp0"ku"ppg"y jke j<*3+"ku"kp fgrgp fgpvn{"qypgf"cpf"qrgtcvgf="*4+"ku"pqv"fq o kpcpv"kp"kvu"hgknf"qh"qrgtcvkqp="cpf"*5+"ucvkuhgu"cp{"cf fkvkqpcn"etkvgtkc"guvcdnku jgf"d{"vjg"U o cmm"Dwukpguu"Cf o kpkuvtcvkqp" *UDC+0:"

80A Small Businesses, Small Organizations, Small Governmental Jurisdictions."Qwt"cevkqpu."qxgt"vk o g." o c{"chhgevu"o cmm"gpvkvkgu"vjcv"ctg"ppq"gcukn{"ecvg i qtk|gf"cv"rtgugpv0""Yg"vjg"tghqte"fguetkdg"jgtg."cv"vjg"qwwug."vjtg"dtqcf"i tqwru"qh"u o cmm"gpvkvkgu"vjcv"eqwnf"dg"fktegn{"chhgevgf"jgtgkpl0:""Hktuv."y jkng"vjg"tgg"ctg"kp f wuvt{"urgekhe"uk|g"uvcpfctfu"htq"u o cmm"dwukpguu"vjcv"ctg"wguf"kp"vjg"tg i wncvt{"hngzkdknk{"cpcn{"uku."ceeqt fkipi"vq"fcvc"htq"o"vjg"U o cmm"Dwukpguu"Cf o kpkuvtcvkqp0" *UDC+"Qhhkeg"qh"Cfxqece{"kp"i gpgtcn"u o cmm"dwukpguu"ku"cp"kp fgrgp fgpv"dwukpguu"jcxkp i"hg y gt"vjcp"722"g o rnaq{ggul032""Vjgug"v{"rgu"qh"u o cmm"dwukpguu"tgrtgugpv"; ;0; ' "qh"cnm"dwukpguu"kp"vjg"Wpkvgf"Uvcvgu."y jke j"vtcpuncvgu"vq"5209"o knnkqp"dwukpguu033"

90A Pgzv."vjg"v r g"qh"u o cmm"gpvkv{"fguetkdg"cu"o"ou o cmm"qti cpk|cvkqp0"ku"i gpgtcn{"o"cp{"pqv/hqt/rtqhk"v"gpvgrtkug"y jke j"ku"kp fgrgp fgpvn{"qypgf"cpf"qrgtcvgf"cpf"ku"pqv"fq o kpcpv"kp"kvu"hgknf0o34"Vjg"Kpvgtpcn"Txgppwg"Ugtxkeg"*KTU+"wugu"o"tgxgpwg"dgpe j o ctm"qh"&72.222"qt"nguu"vq"fgnkpgcvg"kvu"cppwcn"ngtevtqpk"hnkpi"tgs wktg o gpvu"htq"u o cmm"gzg o rv"qti cpk|cvkqp035""Pcvkqpy kfg."hqt"vcz"{"gct"423:."vjg"tg"

6"7"W0U0E0"E"826"*c+*5+0"

7"See 7"W0U0E0"E"825*d+*5+0"

8"7"W0U0E0"E"823*8+0"

9"7"W0U0E0"E"823*5+*kpeqtrqtcvkpi"d{"tghgtpeg"vjg"fgkpkvkqp"qh"ou o cmm/dwukpguu"eqpegtp0"kp"vjg"U o cmm"Dwukpguu"cev."37"W0U0E0"E"854+0"Rwtuwcgv"vq"7"W0U0E0"E"823*5+."vjg"uvcwvqt{"fghkpkvkqp"qh"o"ou o cmm"dwukpguu"cr rnkgu"owpnguu"cp"ci gpe{.chvgt"eqpuwncvkqp"y kvj"vjg"Qhhkeg"qh"Cfxqece{"qh"vjg"U o cmm"Dwukpguu"Cf o kpkuvtcvkqp"cpf"chvgt"qr rqtvwpkv{"hqt"rwdnke"eq o o gpv."guvcdnku jgu"ppg"qt"o qtg"fgkpkvkqpu"qh"uwe j"vgt o"y jke j"ctg"cr rtrqtkcvg"vq"vjg"cevkxkvkgu"qh"vjg"ci gpe{"cpf"rwdnku jgu"uwe j"fgkpkvkqp"u+"kp"vjg"Hgfgtcn"tg i kuvgt0o"

:"37"W0U0E0"E"8540"

:"See"7"W0U0E0"E"823*5+*8+0"

32"See"UDC."Qhhkeg"qh"Cfxqece{."o"Y jcvou"Pg y"Y kvj"U o cmm"DwukpguuA0."jwru<llefpl0cfxqece{0ude0 i qx|y r/eqpvglw rnaqcfu l423; l2; l45394: 7; lY jcvu/Pg y/Y kvj/U o cmm/Dwukpguu/423; 0r fh" *Ugrv"423; +0"

33"Id0"

34"7"W0U0E0"E"823*6+0"

35"Vjg"KTU"dgpe j o ctm"ku"oknct"vq"vjg"rqrwncvkqp"qh"nguu"vjcp"72.222"dgpe j o ctm"kp"7"W0U0E0"E"823*7+*vjcv"ku"wguf"vq"fgkpg"cu"o cmm"i qxgtp o gpcn"lwtku fkevkqp0"Vjg"tghqte."vjg"KTU"dgpe j o ctm"jcu"dgpg"wguf"vq"guvk o cvg"vjg"pw o dgt"u o cmm"qti cpk|cvkqp"kp"vjku"u o cmm"gpvkv{"fguetkrvkqp0""Uee"Cpwwcn"Gngtevtqpk"hnkpi"tgs wktg o gpv"htq"U o cmm"Gzg o rv"Qticpk|cvkqp"o"htq"o"; ;2/P"*g/Rquvectf+."\$ Y j q"o wuv"hnq.\$jwru<lly y v0ktu0 i qxle jctkvkgu/pqpv/rtqhkvl0cppwcn/ngtevtqpk/hnkpi/tgs wktg o gpv/hqt/u o cmm/gzg o rv/qti cpk|cvkqp/hqt o /; ;2/p/g/rquvectf0""Yg"pqvg"vjcv"vjg"KTU"fcvc"fqgu"pqv"rtqxfkg"kpht o cvkqp"qp"y jg vgt"cu"o cmm"gzg o rv"qti cpk|cvkqp"ku"kp fgrgp fgpvn{"qypgf"cpf"qrgtcvgf"qt"fq o kpcpv"kp"kvu"hgknf0"

ygtg"cr rrtqzk o cvgn{"793.92;"u o cmm"gzg o rv"qti cpk|cvkqpu"kp"vjg"W0U0"tgrqtkpi"tgxgpwgu"qh"&72.222"qt"nguu"ceeqt fkp i"vq"vjg"tg i kuvtkvqp"cpf"vcz"fcvc"htq"gzg o rv"qti cpk|cvkqpu"cxckncdng"htq o"vjg"KTU0³⁶"

:0Á Hkpcnn{."vjg"u o cmm"gpvkv{"fguetkdgf"cu"o"ou o cmm"i qxgtp o gpvcn"lwtku fkevkqpö"ku" fghkpgf"i gpgtcn{"cu"o i qxgtp o gpvu"qh"ekvku."eqwvkvu."vq y pu."vq y pu jkr u."xknc i gu."ue j qqn"fkuvtkvu."qt"urgekcn"fkuvtkvu."y kv j" c" rqrwncvkqp"qh"nguu"vjcp"hhv{"vjg"uocp f06³⁷"W0U0"Egguwu"Dwtgcw"fcvc"htq o"vjg"4239"Egguwu"qh"i qxgtp o gpvu³⁸"kp fkecvg"vjcv"vjg"y gte"; 2.297"nqecn"i qxgtp o gpvcn"lwtku fkevkqp"eqpukvki"qh"i gpgtcn"rwrtrug"i qxgtp o gpvu"cpf"urgekcn"rwrtrug"i qxgtp o gpvu"kp"vjg"Wpkvgf"Uvcvgu³⁹"Qh"vjku"pw o dgt"vjg"y gte"58.; 53"i gpgtcn"rwrtrug"i qxgtp o gpvu"eqwv{"." o wpkekr cn"cpf"vq y p"qt"vq y pu jkr³⁺"y kv j" rqrwncvkqp"qh"nguu"vjcp"72.222"cpf"34.262"urgekcn"rwrtrug"i qxgtp o gpvu"/"kpfgrgpfpv"ue j qqn"fkuvtkvu⁴²"y kv j" gptqnn o gpv"rqrwncvkqp"qh"nguu"vjcp"72.222⁴³"Ceeqt fkp i n{"."dcugf"qp"vjg"4239"W0U0"Egguwu"qh"i qxgtp o gpvu"fcvc."y g"guvk o cvg"vjcv"ngcu"6:.; 93"gpvkvgu"hcmm"kpvg"vjg"ecvg i qt{"qh"ou o cmm"i qxgtp o gpvcn"lwtku fkevkqp⁴⁴"

:0Á Radio Frequency Equipment Manufacturers (RF Manufacturers)0" Pgvjgt"vjg"Eq o o kuukqp"pqt"vjg"UDC"jcu"fgxgnrgrf"cu o cmm"dwukpguu"uk|g"uvcpfctf"cr rnkcedng"vq"Tcfkq"Htgs wge{"Gswkr o gpv"Ocpwhcewtgtu"TH"Ocpwhcewtgtu+0"Vjgtg"ctg"ugxgcn"cpncq i qwu"UDC"u o cmm"gpvkv{"ecvg i qtkgu"

³⁶"See"gzg o rv"qti cpk|cvkqpu"Dwukpguu"Ocuvgt"Hkng"Gzvtcev"*GQ"DOH+."\$EUX"Hkngu"d{"Tg i kqp.\$"[jwruclly y y lktu0i qxl jctkvku/pqp/rtqhkvlzgz o rv/qti cpk|cvkqpu/dwukpguu/ o cuvg t/hkng/gzvtcev/gq/d o h0](#)"Vjg"KTU"gzg o rv"qti cpk|cvkqpu"Dwukpguu"Ocuvgt"Hkng"*GQ"DOH+"Gzvtcev"rtqxfkgu"kpht o cvkqp"qp"cm"tg i kuvtgf"vcz/gzg o rv"lpp/r tqhkvt"qt i cpk|cvkqpu"Vjg"fcvc"wkkn|g f"htq"rwrtrug"qh"vjku"fguetkvpk"y cu"gzvtcev"htq o"vjg"KTU"GQ"DOH"fcvc"htq"tg i kqp"3/Pqt vjgcu"ctgc"*98.: : 8+."Tg i kqp"4/Okf/Cvncpvke"cpf"i tgc v"Ncmgu"ctgcu"*443.343+."cpf"tg i kqp"5/I wnh"Eqcu"cpf"Rcekhe"Eqcu"ctgcu"*495.924+."y jke j"kpew fgu"vjg"eqvkgpvcn"W0U0."Cncumc."cpf"j c y ckk0"Vjku"fcvc"fgu"pq"kpew fgu"kpht o cvkqp"ht"Rwgtvq"tkeq"

³⁷"7"W0U0E0"È"823*7+0"

³⁸"See"35"W0U0E0"È"3830"Vjg"Egguwu"qh"i qxgtp o gpvu"uwtxg{"ku"eqpfwevgf"gxgt{"hxxg"*7+{"gctu"eq o rknkpi"fcvc"htq" {gctu"gp fkp i"y kv j"o46"cpf"o906"See also Egguwu"qh"i qxgtp o gpvu."[jwruclly y y lktu0i qxl jctkvku/ uwtxg fuleqj lcdqwu0jv o n0](#)"

³⁹"See"W0U0"Egguwu"Dwtgcw."4239"Egguwu"qh"i qxgtp o gpvu"o"Qti cpk|cvkqpu"Vcdng"40"Nqecn"i qxgtp o gpvu"d{"V{rg"cpf"Uvcvg<"4239"JE I 3922QT I 24_0"[jwruclly y y lktu0i qxl jctkvku/4239/geqpl i wul4239/ i qxgtp o gpvu0jv o n0](#)"Nqecn"i qxgtp o gpvcn"lwtku fkevkqp"ctg"o c f g"wr"qh"i gpgtcn"rwrtrug"i qxgtp o gpvu"eqwv{"." o wpkekr cn"cpf"vq y p"qt"vq y pu jkr+"cpf"urgekcn"rwrtrug"i qxgtp o gpvu"urgekcn"fkuvtkvu"cpf"kp fgrgpfpv"ue j qqn"fkuvtkvu+0"See also Vcdng"40"JE I 3922QT I 24"Vcdng"PqguaNqecn"i qxgtp o gpvu"d{"V{rg"cpf"Uvcvga42390"

³⁺"See id."cv"Vcdng"70"Eqwv{"i qxgtp o gpvu"d{"Rqrwncvkqp/Uk|g"i tqwr"cpf"Uvcvg<"4239"JE I 3922QT I 27_0"[jwruclly y y lktu0i qxl jctkvku/4239/geqpl i wul4239/ i qxgtp o gpvu0jv o n0](#)"Vjgtg"y gte"4.327"eqwv{"i qxgtp o gpvu"y kv j"rqrwncvkqp"nguu"vjcp"72.2220"Vjku"ecvg i qt{"fgu"pq"kpew fgu"uwcwv{"* o wpkekr cn"cpf"vq y pu jkr+"i qxgtp o gpvu"

³⁻"See id. at"Vcdng"80"Uwdeqwpv{"i gpgtcn/Rwrtrug"i qxgtp o gpvu"d{"Rqrwncvkqp/Uk|g"i tqwr"cpf"Uvcvg<"4239"JE I 3922QT I 28_0"[jwruclly y y lktu0i qxl jctkvku/4239/geqpl i wul4239/ i qxgtp o gpvu0jv o n0](#)"Vjgtg"y gte"3: .94;" o wpkekr cn"cpf"38.2; 9"vq y p"cpf"vq y pu jkr"i qxgtp o gpvu"y kv j"rqrwncvkqp"nguu"vjcp"72.2220"

⁴²"See id."cv"Vcdng"320"Gng o gpvct{"cpf"Ugeqpfct{"Ue j qqn"U{uvg o u"d{"Gptqnn o gpv/Uk|g"i tqwr"cpf"Uvcvg<"4239"JE I 3922QT I 32_0"[jwruclly y y lktu0i qxl jctkvku/4239/geqpl i wul4239/ i qxgtp o gpvu0jv o n0](#)"Vjgtg"y gte"34.262"kp fgrgpfpv"ue j qqn"fkuvtkvu"y kv j" gptqnn o gpv"rqrwncvkqp"nguu"vjcp"72.2220"See also Vcdng"60"Urgekcn/Rwrtrug"Nqecn"i qxgtp o gpvu"d{"Uvcvg"Egguwu" [gctu"3; 64"vq"4239"JE I 3922QT I 26_."E I 3922QT I 26"Vcdng"PqguaUrgekcn"Rwrtrug"Nqecn"i qxgtp o gpvu"d{"UvcvgaEgguwu" [gctu"3; 64"vq"42390"

⁴³"Y jkng"vjg"urgekcn"rwrtrug"i qxgtp o gpvu"ecvg i qt{"cnuq"kpew fgu"nqecn"urgekcn"fkuvtkv"i qxgtp o gpvu."vjg"4239"Egguwu"qh"i qxgtp o gpvu"fcvc"fgu"pq"rtqxfkg"fcvc"ci i tgi cvgf"dcugf"qp"rqrwncvkqp"uk|g"htq"vjg"urgekcn"rwrtrug"i qxgtp o gpvu"ecvg i qt{"0"Vjgtg"htg."qpn{"fcvc"htq o"kp fgrgpfpv"ue j qqn"fkuvtkvu"ku"kpew fgu"kp"vjg"urgekcn"rwrtrug"i qxgtp o gpvu"ecvg i qt{"0"

⁴⁴"Vjku"vqcn"ku"fgtkxgf"htq o"vjg"uw o"qh"vjg"pw o dgt"qh"i gpgtcn"rwrtrug"i qxgtp o gpvu"eqwv{"." o wpkekr cn"cpf"vq y p"qt"vq y pu jkr+"y kv j"rqrwncvkqp"qh"nguu"vjcp"72.222*58.; 53+cpf"vjg"pw o dgt"qh"urgekcn"rwrtrug"i qxgtp o gpvu"/"kpfgrgpfpv"ue j qqn"fkuvtkvu"y kv j" gptqnn o gpv"rqrwncvkqp"qh"nguu"vjcp"72.222*34.262+."htq o"vjg"4239"Egguwu"qh"i qxgtp o gpvu"Qti cpk|cvkqpu"Vcdng"7.8."cpf"320"

cr rnkcdng"vq"TH"Ocpwhcevtgtu//Hkzgf"Oketqycxg"Ugtxkegu."Qvjgt"Eq o o wpkecvkqpu"Gswkr o gpv"
Ocpwhcevtkpi."cpf"Tcfkq"cpf"Vgngxkukqp"Dtqcfecuvkpi"cpf"Yktnguu"Eq o o wpkecvkqpu"Gswkr o gpv"
Ocpwhcevtkpi"0"0"C"fguetkrvkqp"qh"vjgug"u o cmn"gpvkv{"ecvg i qtkgu"cpf"vjg"u o cmn"dwukpguu"uk|g"uvcpfctfu"wpfgt"
vjg"UDC"twngu"ctg"fgvckngf"dgnqy0"

320A Fixed Microwave Services."Oketqycxg"ugtxkegu"kpewfgeq o o qp"ecttktg.⁴⁵"rtkxcvg/
qrgtcvkqpcn"hkzgf.⁴⁶"cpf"dtqcfecuv"cwzknkct{"tcfkq"ugtxkegu⁴⁷"Vjg{"cnuq"kpewfgeq"vjg"Wr rgt"Oketqycxg"
Hngzkdng"Wug"Ugtxkeg.⁴⁸"Oknmk o gvgt"Ycxg"Ugtxkeg.⁴⁹"Nqecn"Owvkrqkpv"FKuvtkdvwkqp"Ugtxkeg"*NOFU+.⁴"vjg"
Fki kvcn"Gngevtqpk"Oguuc i g"Ugtxkeg"*FGOU+.⁴"cpf"vjg"46" I J|"Ugtxkeg.⁵²"y jgtg"nkegpuggu"ecp"ejqqug"
dgy y ggp"eq o o qp"ecttktg"cpf"pqp/eq o o qp"ecttktg"uvcvwu⁵³"Vjgtg"ctg"cr r tqzk o cvgn{"88.8:2 eq o o qp"
ecttktg"hkzgf"nkegpuggu."8 ;.582"rtkxcvg"cpf"rwdnke"uchgv{"qrgtcvkqpcn/hkzgf"nkegpuggu."42.372"dtqcfecuv"
cwzknkct{"tcfkq"nkegpuggu."633"NOFU"nkegpugu."55"46" I J|"FGOU"nkegpugu."999"5 ;" I J|"nkegpugu."cpf"hkxg"
46" I J|"nkegpugu."cpf"689"Oknmk o gvgt"Ycxg"nkegpugu"kp"vjg" o ketqycxg"ugtxkegu⁵⁴"Vjg"Eq o o kuukqp"jcu"
ppq{"g"fhgkpgf"cu o cmn"dwukpguu"ykvj"tgu r gev"vq" o ketqycxg"ugtxkegu"Vjg"enqugu"cr rnkcdng"UDC"
ecvg i qt{"ku"Yktnguu"Vnggeq o o wpkecvkqpu"Ecttktg"*gzegrv"Ucvgnkv+⁵⁵"cpf"vjg"cr r tqrtkcvg"uk|g"uvcpfctf"
hqt"vjku"ecvg i qt{"wpfgt"UDC"twngu"ku"vjcv"uwej"cu"dwukpguu"ku"u o cmn"kh"kv"jcu"3.722"qt"hg y gt"g o r nq{ggu⁵⁶"Hqt"
vjku"kp fwvut{"W0U0"Egguwu"Dwtgcv"fcvc"hqt"4234"ujqy"vjcv"vjgtg"ygtg";89"hkt o u"vjcv"qrgtcvgf"hqt"vjg"
gpvktg{"gct⁵⁷"Qh"vjku"vqvcn." ;77"hkt o u"jcf"g o r nq{ o gpv"qh"; ; ;"qt"hg y gt"g o r nq{ggu"cpf"34"jcf"g o r nq{ o gpv"
qh"3222"g o r nq{ggu"qt" o qtg⁵⁸"Vjwu"wpfgt"vjku"UDC"ecvg i qt{"cpf"vjg"cuuqekcvgf"uk|g"uvcpfctf."vjg"
Eq o o kuukqp"guvk o cvgu"vjcv"cu o clqtkv{"qh"hkzgf" o ketqycxg"ugtxkeg"nkegpuggu"ecp"dg"eqpukfgtgf"u o cmn0"

330A Vjg"Eq o o kuukqp"fqgu"pqv"jcxg"fcvc"urgekhh"kp i"vjg"pw o dgt"qh"vjgug"nkegpuggu"vjcv"jcxg"
o qtg"vjcv"3.722"g o r nq{ggu."cpf"vjwu"ku"wpcdng"cv"vjku"vk o g"vq"guvk o cvg"ykvj" i tgcvtg"rtgekukqp"vjg"pw o dgt"
qh"hkzgf" o ketqycxg"ugtxkeg"nkegpuggu"vjcv"yqwnf"swcnkh{"cu"u o cmn"dwukpguu"eqpegtpu"wpfgt"vjg"UDC0u"
u o cmn"dwukpguu"uk|g"uvcpfctf0"Eapugswgpvn{"vjg"Eq o o kuukqp"guvk o cvgu"vjcv"vjgtg"ctg"wr"vq"58.92: "

⁴⁵See 69"EHT"rctv"323."uwdrcvtu"E"cpf"K0"

⁴⁶See 69"EHT"rctv"323."uwdrcvtu"E"cpf"J0"

⁴⁷Cwzknkct{"Oketqycxg"Ugtxkeg"ku"i qxgtpgf"d{"rctv"96"qh"Vkvng"69"qh"vjg"Eq o o kuukqp0u"Twngu0"See"69"EHT"rctv"960"
Cxcnkcdng"vq"nkegpuggu"qh"dtqcfecuv"uvcvkqpu"cpf"vq"dtqcfecuv"cpf"ecdng"pgv y qtm"gpvkvku."dtqcfecuv"cwzknkct{"
o ketqycxg"uvcvkqpu"ctg"wguf"ht"tgnc{kp i"dtqcfecuv"vngxkukqp"uk i pcnu"htq o "vjg"uwvfkq"vq"vjg"vtcpu o kvgt."qt"dgy y ggp"
v y q"rqpku"uwej"cu"cu o clp"uwvfkq"cpf"cp"cwzknkct{"uwvfkq0"Vjg"ugtxkeg"cuq"kpewfge"u o qdkng"VX"rkemwru."y jkej"tgnc{"
uk i pcnu"htq o "t"g o qvg"nqecvkqp"dcem"vq"vjg"uwvfkq0"

⁴⁸See 69"EHT"rctv"52."

⁴⁹See"69"EHT"rctv"323."uwdrcvtv"S0"

⁴:"See"69"EHT"rctv"323."uwdrcvtv"N0"

⁴:"See"69"EHT"rctv"323."uwdrcvtv" I 0"

⁵²"Ugg"idl0"

⁵³See"69"EHT"ÈÈ"3230755."323032390"

⁵⁴Vjgug"uvcvkukv"ctg"dcugf"qp"cu"tgxkg y"qh"vjg"Wpkxgtuci"Nkegpukpi"U{uvg o"qp"Ugrvg o dgt"44."42370"

⁵⁵See"W0U0"Egguwu"Dwtgcv."2017 NAICS Definition, "517312 Wireless Telecommunications Carriers"*except
Satellite+.6"jvruclly y y0egpuwu0iqxleik/dkpluuuflpckleupcktejeAeqfg?739534 (ugctej?4239 '42PCKEU '42Ugctejl0"

⁵⁶See"35"EHT"È"3430423."PCKEU"Eqfg"739534"*rtgkxqwu{"739432+0"

⁵⁷See"W0U0"Egguwu"Dwtgcv."2012 Economic Census of the United States."Vcdng"KF<GE3473UUU\7, Information:
Subject Series, Estab and Firm Size: Employment Size of Firms for the U.S.: 2012,"PCKEU"Eqfg"739432.""
jvrucllfcvcllegpuwu0iqxlegfueklvcdngAvgz?GE3473UUU\7 (p?739432 (vkf?GEPUK\G42340GE3473UUU\7 (jkfgrtgc
ky?hcnuq (xkpvci g?42340"

⁵⁸Idl0"Vjg"cxkncdng"W0U0"Egguwu"Dwtgcv"fcvc"fqgu"pqv"rtqkfg"cu" o qtg"rtgekug"guvk o cvg"qh"vjg"pw o dgt"qh"hkt o u"vjcv"
o ggv"vjg"UDC"uk|g"uvcpfctf0"

eq o o qp"ecttkgt"hkzgf"nkegpuggu"cpf"wr"vq"7 ; 4 ; 3"rtkxvq"qrgtcvkqpcn/hkzgf"nkegpuggu"cpf"dtqcfecuv"
cwzknkct{"tcfkq"nkegpuggu"kp"vjg"o ketqy cxg"ugtxkegu"vjcv"o c{"dg"u o cmm"cpf"o c{"dg"chhgevfg"d{"vjg"twngu"
cpf"rqnkekgu"fkuewuugf"jgtgkp⁵⁹"Yg"pqvg."jqy gxgt."vjcv"vjg"o ketqy cxg"hkzgf"nkegpugg"ecvgi qt{"kpenwfgu"
uq o g"nctig"gpvkkgu⁶⁰"

340^A *Other Communications Equipment Manufacturing*⁶¹"Vjku"kpfwvwt{"eq o rtkugu"
guvcdnkj o gpvu"rtk o ctkn{"gpicigf"kp"o cpwhcevwtkpi"eq o o wpkecvkqpu"gswr o gpv"⁶²gzegrv"vngnr j qpg"
cr rctcvwu."cpf"tcfkq"cpf"vngxkukq"dtqcfecuv."cpf"yktnguu"eq o o wpkecvkqpu"gswr o gpv"⁶³Gzc o rngu"qh"
uwej"o cpwhcevwtkpi"kpenwfg"htg"fgvgevkkp"cpf"cnct o "u{uvg o u"o cpwhcevwtkpi."Kpvgteq o "u{uvg o u"cpf"
gswr o gpv"o cpwhcevwtkpi."cpf"ukipcnu"⁶⁴g⁰i⁰."jki j y c{"."rgfgvutkcp."tckn y c{"."vtchhke+"o cpwhcevwtkpi⁶⁵:"Vjg"
UDC"jcu"guvcdnkj g f" c"uk | g"uvpcfctf"ht"vjku"kpfwvwt{"cu"cm"uwej"htk o u"jcxkpi"972"qt"hy y gt"g o r nq { ggu⁶⁶:"
W0U0"Egguwu"Dwtgcw"fcvc"ht"4234"ujqy"vjcv":5"guvcdnkj o gpvu"qrgtcvfg"kp"vjcv" { gct⁶⁷"Qh"vjcv"pw o dgt."
59 ; "qrgtcvfg" y kvj "hy y gt"vjcv"722"g o r nq { ggu"cpf"6"jcf"722"vq ; ; "g o r nq { ggu⁶⁸"Dcugf"qp"vjku"fcvc."y g"
eqpenwfg"vjcv"vjg"o clqtkv{"qh"Qv jgt"Eq o o wpkecvkqpu"Gswr o gpv"Ocpwhcevwgtu"ctu"o cmm⁶⁹"

350^A *Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing*⁷⁰"Vjku"kpfwvwt{"eq o rtkugu"guvcdnkj o gpvu"rtk o ctkn{"gpicigf"kp"o cpwhcevwtkpi"tcfkq"cpf"
vngxkukq"dtqcfecuv"cpf"yktnguu"eq o o wpkecvkqpu"gswr o gpv"⁷¹Gzc o rngu"qh"rtqfwewu"o c f g" d {" v j g u g"
guvcdnkj o gpvu"ctg<"vtcpu o kwpki"cpf"tgegkxkpi"cpvppcu."ecdng"vngxkukq"gswr o gpv."IRU"gswr o gpv."
rci gtu."egnwnc"r j qpgu."o qdkg"eq o o wpkecvkqpu"gswr o gpv."cpf"tcfkq"cpf"vngxkukq"uwvfkq"cpf"
dtqcfecuvkpi"gswr o gpv"⁷²Vjg"UDC"jcu"guvcdnkj g f" c"uk | g"uvpcfctf"ht"vjku"kpfwvwt{"qh"3.472"g o r nq { ggu"
qt"ngu⁷³"W0U0"Egguwu"Dwtgcw"fcvc"ht"4234"ujqy"vjcv":63"guvcdnkj o gpvu"qrgtcvfg"kp"vjku"kpfwvwt{"kp"vjcv"
{ gct⁷⁴"Qh"vjcv"pw o dgt." : 4 : "guvcdnkj o gpvu"qrgtcvfg" y kvj "hy y gt"vjcv"3.222"g o r nq { ggu."9"guvcdnkj o gpvu"
qrgtcvfg" y kvj "dgy y ggp"3.222"cpf"4.6 ; ; "g o r nq { ggu"cpf"8"guvcdnkj o gpvu"qrgtcvfg" y kvj "4.722"qt"o qtg"
g o r nq { ggu⁷⁵"Dcugf"qp"vjku"fcvc."y g"eqpenwfg"vjcv"o c l q t k v {" q h " o c p w h c e v w t g t u " k p " v j k u " k p f w v w t {" c t g " u " o c m m ⁷⁶"

360^A *Wireless Telecommunications Carriers (except Satellite)*⁷⁷"Vjku"kpfwvwt{"eq o rtkugu"
guvcdnkj o gpvu"gp i c i g f" k p " q r g t c v k p i " c p f " o c k p c k p k p i " u y k v e j k p i " c p f " v t c p u o k u u k q p " h c e k n k v k g u " v q " r t q x k f g "

⁵⁹"See"W0U0"Egguwu"Dwtgcw."2017 NAICS Definitions, "334290 Other Communications Equipment Manufacturing,ö"
[jvruc<ll y y 0egpuwu0iqxleik/dkpluuuflpckeu/pckeu/jAqprw?5564;2 \(ugcte j?4239- PCKEU-Ugcte j \(ugcte j?4239\)](http://www.fcc.gov/etools/naics/2017/334290-Other-Communications-Equipment-Manufacturing)

⁶⁰"Id."

⁶¹"See"35"EHT"3430423."PCKEU"Eqfg"5564;20"

⁶²"See W0U0"Egguwu"Dwtgcw."2012 Economic Census of the United States."Vcdng"KF<"GE3453U I 4."Manufacturing:
Summary Series: General Summary: Industry Statistics for Subsectors and Industries by Employment Size: 2012,"
PCKEU"Eqfg"5564;2."
[jvruc<ll fvcvlegpuwu0iqxlegfueklvcdngAvgz?GE3453U I 4 \(p?5564;2 \(vkf?GEPUK\G42340GE3453U I 4 \(j k f g R t g x k g y ? h c n u g \(x k p v c i g ? 4 2 3 4 0 \)](http://www.fcc.gov/etools/economic-census/2012/3453U-I4-(p?5564;2(vkf?GEPUK\G42340GE3453U I 4 (j k f g R t g x k g y ? h c n u g (x k p v c i g ? 4 2 3 4 0))

⁶³"Id. Vjg"cxkncdng"W0U0"Egguwu"Dwtgcw"fcvc"fqgu"pqv"rtqxfkg"o qtg"rtgekug"guvk o cvg"qh"vjg"pw o dgt"qh"htk o u"vjcv"
o gg v"vjg"UDC"uk | g"uvpcfctf⁰

⁶⁴"See W0U0"Egguwu"Dwtgcw."2017 NAICS Definition."ö334220 Radio and Television Broadcasting and Wireless
Communications Equipment Manufacturing.ö [jvruc<ll y y 0egpuwu0iqxleik/
dkpluuuflpckeu/pckeu/jAeqfg?556442 \(ugcte j?4239.](http://www.fcc.gov/etools/naics/2017/334220-Radio-and-Television-Broadcasting-and-Wireless-Communications-Equipment-Manufacturing)"

⁶⁵"Id."

⁶⁶"See 35"EHT"3430423."PCKEU"Eqfg"5564420"

⁶⁷"See W0U0"Egguwu"Dwtgcw."2012 Economic Census of the United States."Vcdng"KF<"GE3453U I 4."Manufacturing:
Summary Series: General Summary: Industry Statistics for Subsectors and Industries by Employment Size: 2012."
PCKEU"Eqfg"556442."
[jvruc<ll fvcvlegpuwu0iqxlegfueklvcdngAvgz?GE3453U I 4 \(p?556442 \(vkf?GEPUK\G42340GE3453U I 4 \(j k f g R t g x k g y ? h c n u g \)](http://www.fcc.gov/etools/economic-census/2012/3453U-I4-(p?556442(vkf?GEPUK\G42340GE3453U I 4 (j k f g R t g x k g y ? h c n u g))

⁶⁸"Id. Vjg"cxkncdng"W0U0"Egguwu"Dwtgcw"fcvc"fqgu"pqv"rtqxfkg"o qtg"rtgekug"guvk o cvg"qh"vjg"pw o dgt"qh"htk o u"vjcv"
o gg v"vjg"UDC"uk | g"uvpcfctf⁰

eq o o wpkecvkqpu"xkc"vjg"ckt y cxguo"Guvcndku j o gpvu"kp"vjku"kpfwuvt{"jcxg"urgetw o "nkegpugu"cpf"rtqxfkg"ugtxkegu"wukpi"vjcv"urgetw o ."uwej"cu"egnnwct"ugtxkegu."rcikpi"ugtxkegu."yktnguu"kpvtgpgv"ceeguu."cpf"yktnguu"xkfgq"ugtxkegu⁶⁹"Vjg"crtrqrtkcvg"uk|g"uvcpfctf"wpfgt"UDC"twngu"ku"vjcv"uwej"c"dwukpguu"ku"u o cmm"kh"kv"jcu"3.722"qt"hg y gt"g o r nq{ ggu⁶:"Hqt"vjku"kpfwuvt{"W0U0"Egguwu"Dwtgcw"fcvc"hqt"4234"ujqy"vjcv"vjggtg"ygtg";89"hkt o u"vjcv"qrgtcvgf"hqt"vjg"gpvktg{"gct⁶:"Qh"vjku"vqvcn.";77"hkt o u"g o r nq{gf"hg y gt"vjcp"3.222"g o r nq{ ggu"cpf"34"hkt o u"g o r nq{gf"qh"3222"g o r nq{ ggu"qt" o qtg⁷²"Vjwu"wpfgt"vjku"ecvg i qt{"cpf"vjg"cuuqekcvgf"uk|g"uvcpfctf."vjg"Eq o o kuukqp"guvk o cvgu"vjcv"vjg" o clqtkv{"qh"Yktnguu"Vnggeq o o wpkecvkqpu"Ecctktg"gzegr"Ucvgnkvg+"ctg"u o cmm"gpvkvkgu⁰

37⁰ *Automobile Manufacturing.* "Vjku"W0U0"kpfwuvt{"eq o rtkugu"guvcndku j o gpvu"rtk o ctkn{"gpici"gf"kp"3+" o cpwhcewtkpi"eq o rnvvg"cwvq o qdkngu"*k0g0."dqf{"cpf"ejcuuku"qt"wpkdqf{"+"qt"*4+" o cpwhcewtkpi"cwvq o qdkng"ejcuuku"qpn{⁷³"Vjg"UDC"jcu"guvcndku j g"fc"uk|g"uvcpfctf"hqt"vjku"kpfwuvt{."y j ke j"ku"3.722"g o r nq{ ggu"qt"nguu⁷⁴"4234"W0U0"Egguwu"Dwtgcw"fcvc"kpkecvg"vjcv"3:7"guvcndku j o gpvu"qrgtcvgf"kp"vjku"kpfwuvt{"vjcv{"gct⁷⁵"Qh"vjku"pw o dgt."384"guvcndku j o gpvu"jcf"g o r nq{ o gpv"qh"hg y gt"vjcp"3.222"g o r nq{ ggu."cpf"33"guvcndku j o gpvu"jcf"g o r nq{ o gpv"qh"3.222"vq"4.6; ;"g o r nq{ ggu⁷⁶"Vjggtgqg."vjg"Eq o o kuukqp"guvk o cvgu"vjcv"vjg" o clqtkv{"qh" o cpwhcewtkg"kp"vjku"kpfwuvt{"ctg"u o cmm"gpvkvkgu⁰

38⁰ *Internet Service Providers (Non-Broadband).* Kpvtpgv"ceeguu"ugtxkeg"rtqxfkg"uwej"cu" Fkcn/wr"kpvtgpgv"ugtxkeg"rtqxfkg"u"XqkR"ugtxkeg"rtqxfkg"u"wpki"enkpv/uwr"rnkgf"vnggeq o o wpkecvkqpu"eqppgevkqpu"cpf"Kpvtpgv"ugtxkeg"rtqxfkg"u"wpki"enkpv/uwr"rnkgf"vnggeq o o wpkecvkqpu"eqppgevkqpu"*g0i0."fkcw/r"KURu+"hcn"kp"vjg"ecvg i qt{"qh"Cnn"Qvjgt"Vnggeq o o wpkecvkqpu⁷⁷"Vjg"UDC"jcu"fgxgnqrgf"cu o cmm"dwukpguu"uk|g"uvcpfctf"hqt"Cnn"Qvjgt"Vnggeq o o wpkecvkqpu"y j ke j"eqpukuv"qh"cnm"uwej"hkt o u"ykvj"i tquu"cppwcn"tgegrvu"qh"&57" o kmkqp"qt"nguu⁷⁸"Hqt"vjku"ecvg i qt{"W0U0"Egguwu"Dwtgcw"fcvc"hqt"4234"ujqy"vjcv"vjggtg"ygtg"3.664"hkt o u"vjcv"qrgtcvgf"hqt"vjg"gpvktg{"gct⁷⁹"Qh"vjgug"hkt o u."c"vqvcn"qh"3.622"jcf"i tquu"cppwcn"

⁶⁹See "W0U0"Egguwu"Dwtgcw."2017 NAICS Definition, "517312 Wireless Telecommunications Carriers"(except Satellite)." [jwru0lyy0egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprw?739534](http://www.fcc.gov/efiling/egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprw?739534) (ugcte j ?4239- PCKEU-Ugcte j (ugcte j ?4239))

⁶See "35"EHT"E"3430423."PCKEU"Eqfg"739534*r t g x k q w u n {" 739432+0"

⁶See "W0U0"Egguwu"Dwtgcw."2012 Economic Census of the United States."Vcng"KF<"GE3473UUU\7."Information: Subject Series: Estab and Firm Size: Employment Size of Firms for the U.S.: 2012."PCKEU"Eqfg"739432."[jwru0lfvc0egpuwu0iqxlegfueklvcngAvgz?GE3473UUU\7\(p?739432\(vk?GEPUK\G42340GE3473UUU\7\(jkfgRtngxkg y ?hcnug\(xkpvig?42340"](http://www.fcc.gov/efiling/egpuwu0iqxlegfueklvcngAvgz?GE3473UUU\7(p?739432(vk?GEPUK\G42340GE3473UUU\7(jkfgRtngxkg y ?hcnug(xkpvig?42340)

⁷²Idl"Vjg"cxckmcdng"W0U0"Egguwu"Dwtgcw"fcvc"fqgu"pqv"rtqxfkg"cu o qtg"rtgekug"guvk o cvg"qh"vjg"pw o dgt"qh"hkt o u"vjcv" o gg"vjg"UDC"uk|g"uvcpfctf⁰

⁷³See "W0U0"Egguwu"Dwtgcw."2017 NAICS Definitions, "336111 Automotive Manufacturing," [jwru0lyy0egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprw?558333](http://www.fcc.gov/efiling/egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprw?558333) (ugcte j ?4239- PCKEU-Ugcte j (ugcte j ?4239))

⁷⁴See "35"EHT"E"3430423."PCKEU"Eqfg"558333⁰

⁷⁵See "W0U0"Egguwu"Dwtgcw."2012 Economic Census of the United States."Vcng"KF<"GE3453UI4."Manufacturing: Summary Series: General Summary: Industry Statistics for Subsectors and Industries by Employment Size"2012," PCKEU"Eqfg"558333."[jwru0lfvc0egpuwu0iqxlegfueklvcngAvgz?GE3453UI4\(p?558333\(vk?GEPUK\G42340GE3453UI4\(jkfgRtngxky?hcnug0jwru0lhcevhkpf0telegpuwu0iqxldm o mlvcng13021g1GEP14234aWU153UI41pckeu05583330"](http://www.fcc.gov/efiling/egpuwu0iqxlegfueklvcngAvgz?GE3453UI4(p?558333(vk?GEPUK\G42340GE3453UI4(jkfgRtngxky?hcnug0jwru0lhcevhkpf0telegpuwu0iqxldm o mlvcng13021g1GEP14234aWU153UI41pckeu05583330)

⁷⁶Idl"Vjg"cxckmcdng"W0U0"Egguwu"Dwtgcw"fcvc"fqgu"pqv"rtqxfkg"cu o qtg"rtgekug"guvk o cvg"qh"vjg"pw o dgt"qh"hkt o u"vjcv" o gg"vjg"UDC"uk|g"uvcpfctf⁰

⁷⁷See "W0U0"Egguwu"Dwtgcw."2017 NAICS Definition, "517919 All Other Telecommunications." [jwru0lyy0egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprw?739;3;](http://www.fcc.gov/efiling/egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprw?739;3;) (ugcte j ?4239- PCKEU-Ugcte j (ugcte j ?4239))

⁷⁸See "35"EHT"E"3430423."PCKEU"Eqfg"739;3;0"

⁷⁹See "W0U0"Egguwu"Dwtgcw."2012 Economic Census of the United States."Vcng"KF<"GE3473UUU\6."Information: Subject Series - Estab and Firm Size: Receipts Size of Firms for the U.S.: 2012."PCKEU"Eqfg"739;3;."

*eqvkwpgf í 0+

tgegkrvu"qh"nguu"vjcp"&47" o knnkqp07:"Eqpugswgpnv{.wpfgt"vjku"uk|g"uvcpcfctf" c" o clqtkv{"qh"hkt o u"kp"vjku" kpfwuvt{"ecp"dg"eqpukfgtgf"u o cmm0"

390A Internet Service Providers (Broadband). "Dtqcfdepf"Kpvgtpgv"ugtxkeg"rtqxfgtu"kpewfng" yktgf"*g0i0."ecdng."FUN+"cpf"XqKR"ugtxkeg"rtqxfgtu"wukpi"vjgkt"qyp"qrgtcvgf"yktgf"vnggeq o o wpkecvkqpu" kphctcwtwevwtg"hcmm"kp"vjg"ecvgiqt{"qh"Yktgf"Vnggeq o o wpkecvkqpu"Ecttkgtu07:"Yktgf"Vnggeq o o wpkecvkqpu" Ecttkgtu"ctg"eq o rtkugf"qh"guvcdnkuj o gpvu"rtk o ctkn{"gpicigf"kp"qrgtcvki"cpflqt"rtqxfkpi"ceeguu"vq" vtcpu o kuukqp"hceknkvkgu"cpf"kphtcwtwevwtg"vjcv"vjg{"qyp"cpflqt"ngcug"hqt"vjg"vtcpu o kuukqp"qh"xkqg."fcvc." vgzv."uqwpf."cpf"xfkgq"wukpi"yktgf"vnggeq o o wpkecvkqpu"pgvy"qtmu0"Vtcpu o kuukqp"hceknkvkgu" o c{"dg"dcugf"qp" c"ukping"vgejpnqi{"qt" c"eq o dkpcvkqp"qh"vgejpnqikgu082"Vjg"UDC"uk|g"uvcpcfctf"hqt"vjku"ecvgiqt{"encuukhkgu" c"dwukpguu"cu"u o cmm"kh"kv"jcu"3.722"qt"hg ygt" g o rraq{gg083"W0U0"Egguwu"Dwtgcw"fcvc"hqt"4234"ujqy"vjcv" vjgtg"ygtg"5.339"hkt o u"vjcv"qrgtcvgf"vjcv" {gct084"Qh"vjku"vqvcn."5.2:5"qrgtcvgf"ykvj"hg ygt"vjcp"3.222" g o rraq{gg085"Eqpugswgpnv{.wpfgt"vjku"uk|g"uvcpcfctf"vjg" o clqtkv{"qh"hkt o u"kp"vjku"kpfwuvt{"ecp"dg" eqpukfgtgf"u o cmm0"

3:0A Cable System Operators (Telecom Act Standard)0"Vjg"Eq o o wpkecvkqpu"Cev"qh"3:56."cu" c o gpfgf."cnuq"eqpvckpu" c"uk|g"uvcpcfctf"hqt"u o cmm"ecdng"u{uvg o "qrgtcvqtu."y jkej"ku"oc"ecdng"qrgtcvqt"vjcv." fktgevm{"qt"vj tqwi j"cp"chhknkcvg."ugtxgu"kp"vjg"ci i tgi cvg"hg ygt"vjcp"qpg"rgtegv"qh"cm"uwduetkdgtu"kp"vjg" Wpkvgf"Uvcvgu"cpf"ku"pqv"chhknkcvg"ykvj"cp{"gpvkv{"qt"gpvkkgu"y jqug"i tquu"cppwcn"tgxgpwgu"kp"vjg"ci i tgi cvg" gzeggf"&472.2220686"Cu"qh"423;.vjgtg"ygtg"cr rtqzk o cvgn{"6:.868.278"dcuke"ecdng"xfkgq"uwduetkdgtu" kp"vjg"Wpkvgf"Uvcvgu087"Ceeqtfkpin{."cp"qrgtcvqt"ugtxkpi"hg ygt"vjcp"6:8.682"uwduetkdgtu"ujcmm"dg"fgg o gf" c"u o cmm"qrgtcvqt"kh"kvu"cppwcn"tgxgpwgu."y jgp"eq o dkpgf"y kvj"vjg"vqvcn"cppwcn"tgxgpwgu"qh"cm"kvu"chhknkcvg." fq"pq"gzeggf"&472" o knnkqp"kp"vjg"ci i tgi cvg088"Dcugf"qp"cxckncdng"fcvc."y g"hkpf"vjcv"cm"dwv"hxg"ecdng" qrgtcvqtu"ctg"u o cmm"gpvkkgu"wpfgt"vjku"uk|g"uvcpcfctf089"Y g"pqvg"vjcv"vjg"Eq o o kuukqp"pgkjt"tgs wguv"pqt" eqnngvu"kpht o cvkqp"qp"y jgvjgt"ecdng"u{uvg o "qrgtcvqtu"ctg"chhknkcvg"y kvj"gpvkkgu"y jqug"i tquu"cppwcn"

www.fcc.gov/edocs/publications/attach.cfm?id=13551

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82"Id."

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84"See"W0U0"Egguwu"Dwtgcw."2012 Economic Census of the United States,"Vcdng"KF<"GE3473UUU\7."Information: Subject Series - Estab & Firm Size: Employment Size of Firms for the U.S.0<"2012."PCKEU"Eqfg"739332." www.fcc.gov/edocs/publications/attach.cfm?id=13551

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87"U (R" Inqdcn" Octmgn"Kpvgnmki gpeg."U.S. Cable Subscriber Highlights, Basic Subscribers(actual) 2019."U.S. Cable MSO Industry Total, see also U.S. Multichannel Industry Benchmarks, U.S. Cable Industry Benchmarks, Basic Subscribers 2019Y, <https://platform.marketintelligence.spglobal.com>."

88"69"EHT"E"980;23*g+0"

89"U (R" Inqdcn" Octmgn"Kpvgnmki gpeg."Top Cable MSOs as of 12/2019, <https://platform.marketintelligence.spglobal.com>."Vjg"hxg"ecdng"qrgtcvqtu"cm"jcf" o qtg"vjcp"6:8.682"dcuke"ecdng" uwduetkdgtu0"

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E. Description of Projected Reporting, Recordkeeping, and Other Compliance Requirements for Small Entities

3;0A Kp"vjku"Hktuv"Trgrqtv"cpf"Qtfgt." y g"cfqrv"twngu"vj cv"tgs wktg"KVU"nkegpuggu"vq"egcug"wug"qh" vj g"70: 72/70: ; 7" I J | "dcpf"qpg" { gct"hqmq y kpi"vj g"ghhgevkg"fcvg"qh"vj g"Hktuv"Trgrqtv"cpf"Qtfgt."qrgtcvgt"kp" qpn { "vj g"70: ; 7/70; 47" I J | "dcpf"vj g"tqgp."cpf" cempq y ng f i g"eq o rnkcepg" y kvj"vj cv"tgs wktg o gpv" y kvj"vj g" Eq o o kuukqp0" Y g"gzrgev"vj cv"cm"vj g"hknkpi."tgeqtfmggrkpi"cpf"trgrqtvkpi"tgs wktg o gpvu"cuuqekcvgf" y kvj"vj g" cfqrvgf"twngu" y km"dg"vj g"uc o g"ht"nct i g"cpf"u o cmm"dwukpugu0"Kp"cf fkvkqp." y g"dgnkxg"vj cv"vj ku" twng o cmkpi."d { "gzrcpfkpi"vj g"cxckndkknv { "qh"wpnkegpugf"fgxkegu"kp"vj g"70: 72/70: ; 7" I J | "dcpf." y qwnf" rtxkfg"cp"cfxcpcv i g"vq"u o cmm"gpvkvkgu."cu"vj g"ug"gpvkvkgu" y qwnf"dgpgkhv"htq o "dgpki"cdng"vq"ceeguu"vj ku" urgetw o "qxgt" c" y kf g" i gqi tcr jke"ctgc"cpf"htgswgpe { "tcp i g" y kvj qww"vj g"eq o rnkcevkqp"qt"equv"qh"pggfkpi"vq" qdvckp" c"nkegpug0"Qp"dcncepg."vj ku" y qwnf"eqpuvkvvg" c"uk i pkhkecpv"dgpgkhv"htq"u o cmm"dwukpugu0"

F. Steps Taken to Minimize the Significant Economic Impact on Small Entities, and Significant Alternatives Considered

420A Vj g"THC"tgs wktg"cp"ci gpe { "vq" fguetkdg"cp { "uk i pkhkecpv"cnvgtpcvkxgu"vj cv"kv" j cu"eqpukfgtgf" kp"tgej kpi"kvu"rtqrqvgf"cr rtqcej." y jkej" o c { "kpenwfg"vj g"hqmq y kpi" hqwt"cnvgtpcvkxgu"*c o qpi"qv jgtu+*3+ " vj g"guvcdnkj o gpv"qh"fkhhgtkpi"eq o rnkcepg"qt"trgrqtvkpi"tgs wktg o gpvu"qt"vk o gvcdng"vj cv"vcmg"kpvg"ceeqwv" vj g"tguqwtg"cxckndng"vq"u o cmm"gpvkvkgu=*4+"vj g"enctkhkecvkqp."eqpuqnfcvkqp."qt"uk o rnkkecvkqp"qh" eq o rnkcepg"qt"trgrqtvkpi"tgs wktg o gpvu"wpfgt"vj g"twng"htq"u o cmm"gpvkvkgu=*5+"vj g"wug"qh"rgthqt o cpeg."tcv jgt" vj cp"fgukip."uvcpcfctfu="cpf"*6+"cp"gzg o rvkqp"htq o "eqxgtc i g"qh"vj g"twng."qt"cp { "rctv"vj g"tgqh."htq"u o cmm" gpvkvkgu0:"

430A Kp"tgrwrqkpi"vj g"70: 72/70: ; 7" I J | "dcpf"htq"wpnkegpugf"wug." y g"gzrgev"vq"tgcnk | g" uwduvcpvkn"dgpgkhv"u { "gzrcpfkpi" Y k/Hk"ecrcev { "htq"u o cmm"cpf"nct i g"gpvkvkgu"cnkmg0" Cv"vj g"uc o g"vk o g."d { " rtgugtxkpi"52" o g i c jgtv | "qh"urgetw o "kp"vj g"70: ; 7/70; 47" I J | "dcpf"htq"KVU"wug."vj g"twngu"cfqrvgf"kp"vj g" Hktuv"Trgrqtv" ("Qtfgt" y km"dg"uwhhkegpv"htq"vj g"ewttgpv"cpf"hwvwtg"KVU"nkegpuggu"vq"eqpvkpwg"vq"qhhtg"uwej" ugtxkfg"kp"vj g"dcpf0" Y g"dgnkxg"vj cv" y g"jcxg"uvtgc o nkpgf"vj g"ug"twngu"cr rtqr tkcvgn { "vq"chhqt"u o cmm"gpvkvkgu" pgy"qr rqtwpvkvgu"vq"ceeguu"vj cv"urgetw o "kp" c"equv/ghhgevkg" o cpgt0" Y g"hkp"vj cv"vj g"rwdnke"kpvtg"ku" dguv"ugtxgf" d { "cf ftguukpi"vj g"pggf"qh"dqj"KVU"cpf"wpnkegpugf" wugtu"htq"ceeguu"vq"fkuvkpv"rctvu"qh"vj g"70: ; 7" I J | "dcpf0" Vj g"cfqrvgf"twngu"htq"wpnkegpugf"kp"qqt"qrgtcvkvkqp"kp"vj g"70: 72/70: ; 7" I J | "dcpf"ctg"fguk i pgf" vq"rtgxp"vj g"wpnkegpugf"fgxkegu"htq o "ecwukpi" j ct o hwn"kpvgthtgppeg"vq"vj g"nkegpugf"KVU"ugtxkegu"qrgtcvkvkpi" kp"vj g"dcpf"rtkt"vq"vj g"fgcfnkpg"htq"egcukpi" wug"qh"vj g"70: 72/70: ; 7" I J | "dcpf0"Eqpugswgpvn { " y g"fq"pqv" gzrgev"vj cv"vj g"ewttgpv"cpf"hwvwtg"nkegpuggu"kp"vj g"dcpf."kpenwfkpi"u o cmm"gpvkvkgu." y qwnf"gzr gtkgpeg" c" uk i pkhkecpv"geppq o ke" k o rcev"htq o "cf fkvkqpcn"wpnkegpugf" wug"qh"vj g"urgetw o "vj cv" y qwnf"dg" rgt o kvvgf" wpfgt"vj g"cfqrvgf"twngu0"

440A Vj g"tg i wncvqt { "dwtfgpu."uwej"cu"hknkpi"cr rnkcevkqpu"qp"cr rtqr tkcvg"htq o u."ctg"pgeguct { "kp" qtfgt"vq"gpwgt"vj cv"vj g"rwdnke"tgegkxgu"vj g"dgpgkhv"qh"70;" I J | "dcpf"kp" c"rtq o rv"cpf"ghhkegpv" o cpgt"cpf" cr rn { "gswcm { "vq"nct i g"cpf"u o cmm"gpvkvkgu."vj wu" y kvj qww"fkhhgtgpvkn" k o rcev0" Y g" y km"eqpvkpwg"vq"gzc o kpg" cnvgtpcvkxgu"kp"vj g"hwvwtg" y kvj"vj g"qdlgevkg"qh"gnk o kpcvki" wppgeguct { "tg i wncvqpu"cpf" o kpk o k | kpi"cp { " uk i pkhkecpv" k o rcev"qp"u o cmm"gpvkvkgu0"

Report to Congress:

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vjg"Hktuv"Tgrqtv"("Qtfgt."kpenwfkpi"vjku"HTHC."vq"vjg"EjkgH"Eqwpugn"ht"Cfxqece{"qh"vjg"UDC0""C"eqr{"
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Hfgtcn"TGikuvgt⁹³

⁹²"See"7"W0U0E0"È":23*c+*3+*C+0"

⁹³"See"7"W0U0E0"È"826*d+0"

APPENDIX E

INITIAL REGULATORY FLEXIBILITY ANALYSIS

Cu"tgs wktgf"d{"vjg" Tgi wncvqt{"Hngzkd knk{"Cev"qh"3; :2."cu" c o g p f g f" *THC+.3"vjg"Eq o o kuukqp" jcu" r t g r c t g f" v j k u" r t g u g p v" K p k v k c n" T g i w n c v q t {" H n g z k d k n k v {" C p c n {" u k u" *K T H C + " q h" v j g" r q u u k d n g" u k i p k h k e c p v" g e q p q o k e" k o r c e v" q p" c" u w d u v c p v k c n" p w o d g t" q h" u o c m n" g p v k v k u" d {" v j g" r q n k e k u" c p f" t w n g u" r t q r q u g f" k p" v j k u" U s e o f t h e" 5.850-5.925 GHz Band." H w t v j g t" P q v k e g" q h" R t q r q u g f" T w n g o c m k p i" *H w t v j g t" P q v k e g + 0" Y t k v g p" r w d n k e" e q o o g p v u" c t g" t g s w g u v g f" q p" v j k u" K T H C" E q o o g p v u" o w u v" d g" k f g p v k h k g f" c u" t g u r q p u g u" v q" v j g" K T H C" c p f" o w u v" d g" h k n g f" d {" v j g" f g c f n k p g u" h q t" e q o o g p v u" q p" v j g" H w t v j g t" P q v k e g" r t q x k f g f" k p" v j g" k v g o 0" V j g" E q o o k u u k q p" y k n n" u g p f" c" e q r {" q h" v j g" H w t v j g t" P q v k e g. " k p e n w f k p i" v j k u" K T H C. " v q" v j g" E j k g h" E q w p u g n" h q t" C f x q e c e {" q h" v j g" U o c m n" D w u k p g u u" C f o k p k u v t c v k q p" * U D C + 0" K p" c f f k v k q p. " v j g" H w t v j g t" P q v k e g" c p f" K T H C" * q t" u w o o c t k g u" v j g t g q h + " y k n n" d g" r w d n k u j g f" k p" v j g" H g f g t c n" T g i k u v g t 0 5"

A. Need for, and Objectives of, the Proposed Rules

30A Kp"3; ; ; . " v j g" E q o o k u u k q p" t g u t x g f" 97" o g i c j g t v | " k p" v j g" 70; " I J | " d c p f" * 70: 72/70; 47" I J | + " h q t" K p v g n k i g p v" V t c p u r q t v c v k q p" U { u v g o " * K V U + " u g t x k e g u" f g u k i p g f" v q" g p c d n g" v t c p u r q t v c v k q p" c p f" x g j k e w n c t" u c h g v { / t g n c v g f" e q o o w p k e c v k q p u 0" U k p e g" v j c v" v k o g. " v j g" u g t x k e g u" f g r n q { o g p v" j c u" d g g p" t g n c v k x g n {" n k o k v g f" y k v j k p" v j g" e q p u w o g t" c w v q o q d k n g" o c t m g v 0" T g e g p v n {" . e g n w n c t" x g j k e n g" v q" g x g t {" v j k p i" * E / X 4 Z + . " d c u g f" q p" c" f k h g t g p v" t c f k q" v g e j p q n q i {" " u v c p f c t f" v j c v" k u" k p e q o r c v k n g" y k v j" v j g" e w t t g p v" F g f k e c v g f" U j q t v" T c p i g" E q o o w p k e c v k q p u" * F U T E + " v g e j p q n q i {" . j c u" i c k p g f" o q o g p v w o " c u" c" o g c p u" q h" r t q x k f k p i" v t c p u r q t v c v k q p" c p f" x g j k e n g" u c h g v { / t g n c v g f" e q o o w p k e c v k q p u 0"

40A O g e p y j k n g. " v j g t g" k u" i t q y k p i" f g o c p f" h q t" Y k / H k" c p f" q v j g t" w p n k e g p u g f" c r r n k e c v k q p u 0" c e e g u u" v q" o k f / d c p f" u r g e v t w o " v q" r t q x k f g" n q y / e q u v" y k t g n g u u" e q p p g e v k x k v {" k p" e q w p v n g u u" r t q f w e w" w u g f" d {" C o g t k e c p" e q p u w o g t u 0" K p" x c t k q w u" r t q e g g f k p i u" q x q t" v j g" r c u v" v y q" f g e c f g u. " v j g" E q o o k u u k q p" j c u" g u v c d n k u j g f" c p f" g z r c p f g f" v j g" u r g e v t w o " c x c k n c d n g" h q t" W p n k e g p u g f" P c v k a p c n" K p h q t o c v k q p" K p h t c u v t w e w w t g" * W / P K K + " f g x k e g u" v j t q w i j q w v" v j g" o k f / d c p f" u r g e v t w o " n d e c v g f" k p" v j g" 7" I J | " d c p f 0" C u" c" t g u w n v. " h q t" o c p f {" { g c t u" o q u v" q h" v j g" u r g e v t w o " d g v y g g p" 70372" I J | " c p f" v j g" n q y g t" g f i g" q h" v j g" 70; " I J | " d c p f" * c v" 70: 72" I J | + " j c u" d g g p" c x c k n c d n g" h q t" w p n k e g p u g f" q r g t c v k q p u 0" T g e g p v n {" . v j g" u r g e v t w o " c v" v j g" w r r g t" g f i g" q h" v j g" 70; " I J | " d c p f" h t q o " 70; 47" I J | / 90347" I J | " c n u q" y c u" o c f g" c x c k n c d n g" h q t" v j g u g" q r g t c v k q p u 0"

50A K p" F g e g o d g t" 423 ; . " v j g" E q o o k u u k q p" k p k v c v g f" c" P q v k e g" q h" R t q r q u g f" T w n g o c m k p i" v q" v c m g" c" h t g u j" c p f" e q o r t g j g p u k x g" n q m" c v" v j g" 70; " I J | " d c p f" t w n g u" c p f" r t q r q u g" c r r t q r t k v g" e j c p i g u" v q" h q e w u" q p" v j g" f g r n q { o g p v" q h" e a t g" c w v q o q d k n g" u c h g v {" e q o o w p k e c v k q p u" y j k n g" h t g k p i" w r" u r g e v t w o " h q t" Y k / H k" c p f" q v j g t" w p n k e g p u g f" u g t x k e g u" K p" v j g" t g u w n v k p i" H k t u v" T g r q t v" c p f" Q t f g t. " y g" * 3 + " c f q r v g f" t w n g u" v q" t g r w t r q u g" 67" o g i c j g t v | " q h" u r g e v t w o " k p" v j g" 70: 72/70; ; 7" I J | " d c p f" h t q o " v j g" K V U" t c f k q" u g t x k e g" v q" W / P K K" q r g t c v k q p u" * 4 + " c n n y g f" k o o g f k c v g" c e e g u u" h q t" w p n k e g p u g f" k p f q q t" q r g t c v k q p u" * c v" u r g e k h k g f" n q y" r q y g t" n g x g n u + " c e t q u u" v j g" 70: 72/70; ; 7" I J | " d c p f" = t g v c k p g f" 52" o g i c j g t v | " q h" u r g e v t w o " k p" v j g" 70: ; 7/70; 47" I J | " d c p f" h q t" w u g" d {" u c h g v { / t g n c v g f" v t c p u r q t v c v k q p" c p f" x g j k e w n c t" e q o o w p k e c v k q p u" k p" v j g" K V U" t c f k q" u g t x k e g" = t g s w k t g f" K V U" n k e g p u g g u" v q" q r g t c v g" k p" q p n {" v j g" 70: ; 7/70; 47" I J | " d c p f" c p f" e g c u g" w u g" q h" v j g" 70: 72/70; ; 7" I J | " d c p f" q p g" { g c t" h q m n y k p i" v j g" g h h g e v k x g" f c v g" q h" v j g" H k t u v" T g r q t v" c p f" Q t f g t" = * 7 + " t g s w k t g f" v j g" v t c p u k v k q p" q h" v j g" K V U" t c f k q" u g t x k e g" u v c p f c t f" h t q o " v j g" F U T E + " v g e j p q n q i {" " v q" v j g" E / X 4 Z" v g e j p q n q i {" 0"

60A K p" v j k u" H w t v j g t" P q v k e g. " y g" r t q r q u g" v q" t g u q n x g" v j g" v k o k p i. " r t q e g f w t g u. " c p f" v g e j p k e c n" r c t c o g v g t u" c u u q e k c v g f" y k v j" v j g" v t c p u k v k q p" q h" v j g" w r f c v g f" 70; " I J | " d c p f" r n c p 0" U r g e k h k e c n n {" . v j g" H w t v j g t" P q v k e g" r t q r q u g u" v q" c n n q y" h w n n" r q y g t" q w v f q q t" w p n k e g p u g f" q r g t c v k q p u" c e t q u u" v j g" 70: 72/70; ; 7" I J | " d c p f" q p e g" K V U" q r g t c v k q p u" j c x g" g z k v g f" v j k u" r a t v k a p" q h" v j g" d c p f" c p f" u w d l g e v" v q" c p {" " h w t v j g t" p g e g u a c t {" r t q v g e v k q p u" h q t"

3 See 7 W 0 U 0 E 0 E 825 0 V j g" T H C. " s e e" 7 W 0 U 0 E 0 E 823 6 8 3 4. " j c u" d g g p" c o g p f g f" d {" v j g" U o c m n" D w u k p g u u" T g i w n c v q t {" G p h q t e g o g p v" H c k t p g u u" C e v" q h" 3 ; ; 8" * U D T G H C + . " R w d 0" N 0" P q 0 3 2 6 / 3 4 3. " V k v n g" K K. " 3 3 2" U v c v 0" : 7 9 * 3 ; ; 8 + 0"
4 See 7 W 0 U 0 E 0 E 825 * c + 0"
5 See 7 W 0 U 0 E 0 E 825 * c + 0"

hgfgtcn"qrgtcvkqpu"kp"vjku"urgvtw o0"Vjg"ftchv"cnua"uggmu"vq"guvcdnkuj"rqygt"cpf"g o kuukqp"nko kvu"cpf"qvjgt" twngu"tgnvcgf"vq"qwwfqqt"wpnkegpugf"qrgtcvkqpu"kp"vjg"nqygt"67" o g i c j g t v | " q h " v j g " d c p f 0 " V j g " f t c h v " y q w n f " c f f t g u u " v t c p u k v k p k p i " c m n " K V U " q r g t c v k q p u " k p " v j g " t g x k u g f " K V U " d c p f " c v " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " v q " E / X 4 Z / d c u g f " v g e j p q n q i { . " k p e n w f k p i " v j g " c r r t q r t k c v g " v k " o g n k p g " h q t " k o r n g o g p v c v k q p . " c p f " v j g " e q f k h k e c v k q p " q h " E / X 4 Z " v g e j p k e c n " r c t c o g v g t u " h q t " q r g t c v k q p " k p " v j g " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " d c p f 0 " V j g " H w t v j g t " P q v k e g " y q w n f " c n u q " u g g m " e q o o g p v " q p " y j g v j g t " v j g " E q o o k u u k q p " u j q w n f " e q p u k f g t " c m n q e c v k p i " c f f k v k q p c n " u r g e v t w o " h q t " K V U " c r r n k e c v k q p u " k p " v j g " h w w t g 0 "

B. Legal Basis

70A Vjg"rtqrqugf"cevqkq"ku"vcmgp"cwvjqtqv{"hqwpf"kp"ugevqkpu"3."6*k+."523."524."525."52;"538." cpf"554"qh"vjg"Eq o o wpkecvkqpu"Cev"qh"3;56."cu"co g p f g f . " 6 9 " W 0 U 0 E 0 " E E " 3 7 3 . " 3 7 6 * k + . " 5 2 3 . " 5 2 4 . " 5 2 5 . " 5 2 ; . " 5 3 8 . " c p f " 5 5 4 . " c p f " u g e v k q p " 3 0 6 3 3 " q h " v j g " E q o o k u u k q p o u " T w n g u . " 6 9 " E H T " E " 3 0 6 3 3 0 "

C. Description and Estimate of the Number of Small Entities to Which the Proposed Rules Will Apply

80A Vjg"THC"ftkgevu"ci gpekgu"vq"rtqxfg"cf"fguetkrvkq"qh."cpf"y jgtg"hgucukng."cp"guvk o cvg"qh" vjg"pw o dgt"qh"u o c n n " g p v k v k u " v j c v " o c { " d g " c h h g e v g f " d { " v j g " r t q r q u g f " t w n g u . " k h " c f q r v g f 0 6 " V j g " T H C " i g p g t c m n { " f g h k p g u " v j g " v g t o " o u o c n n " g p v k v { o " c u " j c x k p i " v j g " u c o g " o g c p k p i " c u " v j g " v g t o " u " o u o c n n " d w u k p g u u . o " o u o c n n " q t i c p k | c v k q p . o " c p f " o u o c n n " i q x g t p o g p v c n " l w t k u f k e v k q p o o 7 " k p " c f f k v k q p . " v j g " v g t o " o u o c n n " d w u k p g u u o " j c u " v j g " u c o g " o g c p k p i " c u " v j g " v g t o " o u o c n n " d w u k p g u u " e q p e g t p o " w p f g t " v j g " U o c n n " D w u k p g u u " C e v 0 8 " C " o u o c n n " d w u k p g u u " e q p e g t p o " k u " q p g " y j k e j < * 3 + " k u " k p f g r g p f g p v n { " q y p g f " c p f " q r g t c v g f = " * 4 + " k u " p q v " f q o k p c p v " k p " k v u " h k g n f " q h " q r g t c v k q p = " c p f " * 5 + " u c v k u h k g u " c p { " c f f k v k q p c n " e t k v g t k e " g u v c d n k u j g f " d { " v j g " U o c n n " D w u k p g u u " C f o k p k u v t c v k q p " * U D C + 0 9 "

90A Small Businesses, Small Organizations, Small Governmental Jurisdictions." Qwt"cevqkpu." qxgt"vk o g . " o c { " c h h g e v " u o c n n " g p v k v k u " v j c v " c t g " p q v " g c u k n { " e c v g i q t k | g f " c v " r t g u g p v 0 " Y g " v j g t g h q t g " f g u e t k d g " j g t g . " c v " v j g " q w w u g v . " v j t g g " d t q c f " i t q w r u " q h " u o c n n " g p v k v k u " v j c v " e q w n f " d g " f k t g e v n { " c h h g e v g f " j g t g k p 0 : " H k t u v . " y j k n g " v j g t g " c t g " k p f w u v t { " u r g e k h k e " u k | g " u v c p f c t f u " h q t " u o c n n " d w u k p g u u g u " v j c v " c t g " w u g f " k p " v j g " t g i w n c v q t { " h n g z k d k n k v { " c p c n { u k u . " c e e q t f k p i " v q " f c v c " h t q o " v j g " U o c n n " D w u k p g u u " C f o k p k u v t c v k q p o u " * U D C + " Q h h k e g " q h " C f x q e c e { . " k p " i g p g t c n " c " u o c n n " d w u k p g u u " k u " c p " k p f g r g p f g p v " d w u k p g u u " j c x k p i " h g y g t " v j c p " 7 2 2 " g o r n q { g g u 0 : " V j g u g " v { r g u " q h " u o c n n " d w u k p g u u " t g r t g u g p v " ; 0 ; ' " q h " c n n " d w u k p g u u " k p " v j g " W p k v g f " U v c v g u . " y j k e j " v t c p u n c v g u " v q " 5 2 0 9 " o k n n k q p " d w u k p g u u 0 3 2 "

:0A Pgzv."vjg"v{rg"qh"u o c n n " g p v k v { " f g u e t k d g f " c u " c " o u o c n n " q t i c p k | c v k q p o " k u " i g p g t c m n { " o c p { " p q v / h q t / r t q h k v " g p v g t r t k u g " y j k e j " k u " k p f g r g p f g p v n { " q y p g f " c p f " q r g t c v g f " c p f " k u " p q v " f q o k p c p v " k p " k v u " h k g n f 0 6 3 3 " V j g " k p v g t p c n " T g x g p w g " U g t x k e g " * k T U + " w u g u " c " t g x g p w g " d g p e j o c t m " q h " & 7 2 . 2 2 2 " q t " n g u u " v q " f n k p g c v g " k v u " c p p w c n "

6"See 7"W0U0E0"E"825*d+*5+0"

7"7"W0U0E0"E"823*8+0"

8"7"W0U0E0"E"823*5+*kpeqtrqtckvpi"d{"tghgtpeg"vjg"fghkpvkq"qh"ou o c n n / d w u k p g u u " e q p e g t p o " k p " v j g " U o c n n " D w u k p g u u " C e v . " 3 7 " W 0 U 0 E 0 " E " 8 5 4 + 0 " R w t u w c p v " v q " 7 " W 0 U 0 E 0 " E " 8 2 3 * 5 + . " v j g " u v c w v q t { " f g h k p k v k q p " q h " c " u o c n n " d w u k p g u u " c r r n k g u " o w p n g u u " c p " c i g p e { . " c h v g t " e q p u w n c v k q p " y k v j " v j g " Q h h k e g " q h " C f x q e c e { " q h " v j g " U o c n n " D w u k p g u u " C f o k p k u v t c v k q p " c p f " c h v g t " q r r q t w p k v { " h q t " r w d n k e " e q o o g p v . " g u v c d n k u j g u " q p g " q t " o q t g " f g h k p k v k q p u " q h " u w e j " v g t o " y j k e j " c t g " c r r t q r t k c v g " v q " v j g " c e v k x k v k u " q h " v j g " c i g p e { " c p f " r w d n k u j g u " u w e j " f g h k p k v k q p * u + " k p " v j g " H g f g t c n " T g i k u v g t 0 "

9"37"W0U0E0"E"8540"

: "See"7"W0U0E0"E"823*5+*8+0"

: "See"UDC."Qhhkeg"qh"Cfxqece{."o Y jcvou"Pg y" Y kvj"U o c n n " D w u k p g u u A o . " j v r u < l l e f p l c f x q e c e { 0 u d c l i q x l y r / e q p v p v l w r n q c f u l 4 2 3 ; 1 2 ; 1 4 5 3 9 4 ; 7 ; 1 Y j c w u / P g y / Y k v j / U o c n n / D w u k p g u u / 4 2 3 ; 0 r f h " * U g r v " 4 2 3 ; + 0 "

32" T 0 0 "

33"7"W0U0E0"E"823*6+0"

ngveqtqpkf"hnkpi"tgs wktg o gpvu" hqt"u o cmm"gzg o rv" qti cpk | cvkqpu³⁴"" Pcvkqpykfg. "hqt"vcz" { gct"423: . "v jgtg" ygtg" cr rrtqzk o cvgn{ "793.92; "u o cmm"gzg o rv" qti cpk | cvkqpu"kp"vjg" W0U0"tgrqtvpki"tgxgpwgu"qh"&72.222"qt"nguu" ceeqtfkpi"vq"vjg"tg ikuvtcvkqp"cpf"vcz"fcvc" hqt"gzg o rv" qti cpk | cvkqpu"cxckncdng"htq o "vjg"KTU⁰³⁵""

;0A Hkpcmm{ . "vjg"u o cmm"gpvk{ "fguetkdgf"cu" c"ou o cmm" i qxgtp o gpvcn"lwtku fkevkqp0"ku" fghkpgf" i gpgtcmm{ "cu"o i qxgtp o gpvu"qh"ekvku. "eqwvkvu. "vq y pu. "vq y pu jkr. "xkmc i gu. "ue jqqn" fkuvtkevu. "qt"urgekcn" fkuvtkevu. "y kv j" c" rqrwncvkqp"qh"nguu"vjcp"hhv{ "vjg"wuvcf0i³⁶"" W0U0" Egpwu" Dwtgcw" fcvc"htq o "vjg"4239" Egpwu" qh" I qxgtp o gpvu³⁷"kp fkecvg"vjcv"vjgtg" ygtg"; 2.297"nqecn" i qxgtp o gpvcn"lwtku fkevkqpu"eqpukvki"qh" i gpgtcn" rwrtrug" i qxgtp o gpvu"cpf"urgekcn"rwrtrug" i qxgtp o gpvu"kp"vjg" Wpkvgf"Uvcvgu³⁸"" Qh"vjku"pw o dgt"vjgtg" ygtg" 58. ;53" i gpgtcn"rwrtrug" i qxgtp o gpvu"eqwv{ .³⁹ o wpkekr cn"cpf"vq y p"qt"vq y pu jkr³:" y kv j" rqrwncvkqpu"qh" nguu"vjcp"72.222"cpf"34.262"urgekcn"rwrtrug" i qxgtp o gpvu/"kpfgrgpfgpv"ue jqqn" fkuvtkevu³:" y kv j" gptqmm o gpv"

³⁴"Vjg"KTU"dgpej o ctm"ku"uk o knct"vq"vjg" rqrwncvkqp"qh"nguu"vjcp"72.222"dgpej o ctm"kp"7" W0U0E"È"823*7+"vjcv"ku" wugf"vq" fghkpg"cu"u o cmm" i qxgtp o gpvcn"lwtku fkevkqp0"V jgtghqtg. "vjg"KTU"dgpej o ctm" jcu"dgpp" wugf"vq" guvk o cvg"vjg"pw o dgt"u o cmm" qti cpk | cvkqpu"kp"vjg"u o cmm"gpvk{ "fguetkrvkp0""Uee" Cppwcn" Gngevtqpkf" Hknkpi" Tgs wktg o gpv" hqt"U o cmm" Gzg o rv" Qti cpk | cvkqpu" o "Hqt o"; ; 2/P* g/Rquvectf+. "\$ Y j q" o wuw" hkg. \$ jvruc<l| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulcppwcn/ gngevtqpkf/hknkpi/tgs wktg o gpv/hqt/u o cmm/gzg o rv/qti cpk | cvkqpu/hqt o /; ; 2/p/g/ rquvectf0"" Y g"pqvg"vjcv"vjg"KTU" fcvc" fqu"pqv" rrtqxfg" kphqt o cvkqp"qp" y jgvjgt" c"u o cmm"gzg o rv" qti cpk | cvkqp"ku" kpfgrgpfgpv" { "q y pgf"cpf" qrgtcvfg"qt" fq o kpcpv"kp"kvu" hknf0"

³⁵"See" Gzg o rv" Qti cpk | cvkqpu" Dwukpguu" Ocuvgt" Hkng" Gzvtcev" *GQ"DOH+. "\$EUX" Hkngu" d{ "Tg i kqp. "\$ jvruc<l| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulgzg o rv/qti cpk | cvkqpu/dwukpguu/ o cuvgt/hkng/gzvtcev/gq/d o h0"" Vjg"KTU" Gzg o rv" Qti cpk | cvkqp" Dwukpguu" Ocuvgt" Hkng" *GQ"DOH+" Gzvtcev" rrtqxfg" kphqt o cvkqp"qp" cmm" tgi kugtgf"vcz/ gzg o rv" lqp/r tqhkv" qti cpk | cvkqpu" Vjg" fcvc" wknk | g" hqt" rwrtrug" qh" vjku" fguetkrvkp" y cu" gzvtcevfg" htq o "vjg"KTU" GQ" DOH" fcvc" hqt" Tg i kqp" 3/Pqtj gcvu" Ctgc" *98. : : 8+. "Tg i kqp" 4/Okf/ Cvnckpke" cpf" I tgc v" Ncmgu" Ctgc" *443.343+. "cpf" Tg i kqp" 5/ I wnh" Eqcu" cpf" Rcekhke" Eqcu" Ctgc" *495.924+. "y jkej" kpenwfg" vjg" eqpvkpgpvcn" W0U0. "Cncumc. "cpf" J c y ckk0"" Vjku" fcvc" fqu"pqv" kpenwfg" kphqt o cvkqp" hqt" Rwgvtq" Tkeq0"

³⁶"7" W0U0E"È"823*7+0"

³⁷"See" 35" W0U0E"È"3830"" Vjg" Egpwu" qh" I qxgtp o gpvu" uwtxg{ "ku" eqpfwevgf" gxgt{ "hxxg" *7+ { gctu" eq o rknkpi" fcvc" hqt" { gctu" gpfkpi" y kv j" o46" cpf" o900"" See also Egpwu" qh" I qxgtp o gpvu. "jvruc<l| y y y<leppuw0 i qxlrtqitc o u/ uwtxg{ uleqi lcdqww0 jv o n0"

³⁸"See" W0U0" Egpwu" Dwtgcw. "4239" Egpwu" qh" I qxgtp o gpvu" o" Qti cpk | cvkqp" Vcdng" 40" Nqecn" I qxgtp o gpvu" d{ "V{ rg" cpf" Uvcv<"4239" JE I 3922QT I 24_0"" jvruc<l| y y y<leppuw0 i qxlfcvclcdngul4239/geqpl i wul4239/ i qxgtp o gpvu0 jv o n0" Nqecn" i qxgtp o gpvcn" lwtku fkevkqpu" ctg" o c f g" wr" qh" i gpgtcn" rwrtrug" i qxgtp o gpvu" *eqwv{ . " o wpkekr cn" cpf" vq y p" qt" vq y pu jkr+ " cpf" urgekcn" rwrtrug" i qxgtp o gpvu" *urgekcn" fkuvtkevu" cpf" kpfgrgpfgpv" ue jqqn" fkuvtkevu+0"" See also Vcdng" 40" E I 3922QT I 24" Vcdng" Pqvgua Nqecn" I qxgtp o gpvu" d{ "V{ rg" cpf" Uvcvga42390"

³⁹"See id." cv" Vcdng" 70" Eqwv{ " I qxgtp o gpvu" d{ "Rqrwncvkqp/Uk | g" I tqwr" cpf" Uvcv<"4239" JE I 3922QT I 27_0"" jvruc<l| y y y<leppuw0 i qxlfcvclcdngul4239/geqpl i wul4239/ i qxgtp o gpvu0 jv o n0" Vjgtg" ygtg" 4.327" eqwv{ " i qxgtp o gpvu" y kv j" rqrwncvkqpu" nguu" vjcp" 72.2220"" Vjku" ecvgi qt{ " fqu" pqv" kpenwfg" uwdewpv{ " * o wpkekr cn" cpf" vq y pu jkr+ " i qxgtp o gpvu0"

³:" See id. at" Vcdng" 80" Uwdewpv{ " I gpgtcn" Rwrtrug" I qxgtp o gpvu" d{ "Rqrwncvkqp/Uk | g" I tqwr" cpf" Uvcv<"4239" JE I 3922QT I 28_0"" jvruc<l| y y y<leppuw0 i qxlfcvclcdngul4239/geqpl i wul4239/ i qxgtp o gpvu0 jv o n0" Vjgtg" ygtg" 3: .94; " o wpkekr cn" cpf" 38.2; 9" vq y p" cpf" vq y pu jkr" i qxgtp o gpvu" y kv j" rqrwncvkqpu" nguu" vjcp" 72.2220"

³:" See id." cv" Vcdng" 320" Gng o gpvct{ " cpf" Ugeqpfct{ " Ue jqqn" U{ uv g o u" d{ " Gptqmm o gpv/Uk | g" I tqwr" cpf" Uvcv<"4239" JE I 3922QT I 32_0"" jvruc<l| y y y<leppuw0 i qxlfcvclcdngul4239/geqpl i wul4239/ i qxgtp o gpvu0 jv o n0" Vjgtg" ygtg" 34.262" kpfgrgpfgpv" ue jqqn" fkuvtkevu" y kv j" gptqmm o gpv" rqrwncvkqpu" nguu" vjcp" 72.2220"" See also Vcdng" 60" Urgekcn" Rwrtrug" Nqecn" I qxgtp o gpvu" d{ " Uvcv<" Egpwu" [gctu" 3; 64" vq" 4239" JE I 3922QT I 26_." E I 3922QT I 26" Vcdng" Pqvgua Urgekcn" Rwrtrug" Nqecn" I qxgtp o gpvu" d{ " Uvcvga Egpwu" [gctu" 3; 64" vq" 42390"

rqrwncvkqpu"qh"nguu"vjcp"72.222⁴²"Ceeqtfkpin{"dcugf"qp"vjg"4239"W0U0"Egpuwu"qh" Iqxgtp o gpvu"fcvc."yg" guvk o cvg"vjcv"cv"ngcu"6:.;93"gpvkkgu"hcmm"kp"vjg"ecvg i qt {"qh"du o cmm" i qxgtp o gpvcn"lwtku fkevqpu⁴³"

320^A Radio Frequency Equipment Manufacturers (RF Manufacturers)⁰"Pgkvjgt"vjg" Eq o o kuukqp"pqt"vjg"UDC"jcu"fgxgnqrgf"cu o cmm"dwukpguu"uk|g"uvcpfctf"cr rnkcedng"vq"Tc fkg"htgswgpe {" Gswkr o gpv"Ocpwhcevwgtu"*TH"Ocpwhcevwgtu+⁰"Vjgtg"ctg"ugxgtcn"cpncq i qwu"UDC"u o cmm"gpvk {" ecvg i qtkgu" cr rnkcedng"vq"TH"Ocpwhcevwgtu//Hkzgf"Oketq y cxg"Ugtxkegu."Qv jgt"Eq o o wpkecvkqpu"Gswkr o gpv" Ocpwhcevwtkp i."cpf"Tc fkg"cpf"Vngxkukqp"Dtqc fecu vkpi"cpf"Y ktgnuu"Eq o o wpkecvkqpu"Gswkr o gpv" Ocpwhcevwtkp i⁰"C"fguetkrvkqp"qh"vjgug"u o cmm"gpvk {" ecvg i qtkgu"cpf"vjg"u o cmm"dwukpguu"uk|g"uvcpfctf"wpfgt" vjg"UDC"twngu"ctg"fgvckngf"dgnqy⁰"

330^A Fixed Microwave Services."⁰Oketq y cxg"ugtxkegu"kpewfg"eq o o qp"ecttkgt.⁴⁴"rtkxcvg/ qrgtcvkqpcn"hkzgf.⁴⁵"cpf"dtqc fecu"cwzknkct {"tc fkg"ugtxkegu⁴⁶"Vjg {"cnuq"kpewfg"vjg"Wr rgt"Oketq y cxg" Hngzkdng"Wug"Ugtxkeg.⁴⁷"Oknko gvgt"Y cxg"Ugtxkeg.⁴⁸"Nqecn"Owvkr qkp" Fkuvtkdvwkqp"Ugtxkeg"*NOFU+.⁴⁹"vjg" Fki kvcn"Gngevtqpk"Oguuc i g"Ugtxkeg"*FGOU+.^{4:}"cpf"vjg"46" I J |"Ugtxkeg.^{4:}"y jgtg"nkegpuggu"ecp"ejqqg" dgy y ggp"eq o o qp"ecttkgt"cpf"pqp/eq o o qp"ecttkgt"uvcvwu⁵²"Vjgtg"ctg"cr r tqzk o cvgn {"88.8:2 eq o o qp" ecttkgt"hkzgf"nkegpuggu."8;.582"rtkxcvg"cpf"rwdnke"uchgv {"qrgtcvkqpcn/hkzgf"nkegpuggu."42.372"dtqc fecu" cwzknkct {"tc fkg"nkegpuggu."633"NOFU"nkegpugu."55"46" I J |"FGOU"nkegpugu."999"5;" I J |"nkegpugu."cpf"hxg" 46" I J |"nkegpugu."cpf"689"Oknko gvgt"Y cxg"nkegpugu"kp"vjg" o ketq y cxg"ugtxkegu⁵³"Vjg"Eq o o kuukqp"jcu" ppv {"gv"fhkpgf"cu o cmm"dwukpguu"ykvj"tgur gev"vq" o ketq y cxg"ugtxkegu⁰"Vjg"enquguv"cr rnkcedng"UDC" ecvg i qt {"ku"Y ktgnuu"Vnggeq o o wpkecvkqpu"Ecttkgt"*gzegrv"Ucvgnkvg+.⁵⁴"cpf"vjg"cr r tqrtkcvg"uk|g"uvcpfctf" hqt"vjku"ecvg i qt {"wpfgt"UDC"twngu"ku"vjcv"uwej"cu"dwukpguu"ku"u o cmm"kh"kv"jcu"3.722"qt"hg y gt"g o r nq {"ggul⁵⁵"Hqt" vjku"kp fwvut {"W0U0"Egpuwu"Dwtgcw"fcvc"hqt"4234"ujqy"vjcv"vjgtg"ygtg";89"hko u"vjcv"qrgtcvgf"hqt"vjg"

⁴²"Y jkng"vjg"urgekcn"rwtrqug" i qxgtp o gpvu"ecvg i qt {"cnuq"kpewfg"nqecn"urgekcn"fkvktcv" i qxgtp o gpvu."vjg"4239"Egpuwu" qh" Iqxgtp o gpvu"fcvc"fqgu"pqp"rtqxf"fcvc"ci i tgi cvgf"dcugf"qp"rqrwncvkqpu"uk|hqt"vjg"urgekcn"rwtrqug" i qxgtp o gpvu" ecvg i qt {"⁰"Vjgtgthqg."qpn {"fcvc"htq o "kpfgrgpfpv"uejqqn"fkvktcv"ku"kpewfg"kp"vjg"urgekcn"rwtrqug" i qxgtp o gpvu" ecvg i qt {"⁰"

⁴³ Vjku"qvcn"ku"fgtkxgf"htq o "vjg"uw o "qh"vjg"pw o dgt"qh" i gpgtcn"rwtrqug" i qxgtp o gpvu"eqwv {" o wpkecvkqpu"cpf"vqyp"qt" vq y pu jkr+"ykvj"rqrwncvkqpu"qh"nguu"vjcp"72.222*58.;53+cpf"vjg"pw o dgt"qh"urgekcn"rwtrqug" i qxgtp o gpvu/" kpfgrgpfpv"uejqqn"fkvktcv"ykvj"gpqnn o gpv"rqrwncvkqpu"qh"nguu"vjcp"72.222*34.262+.htq o "vjg"4239"Egpuwu"qh" Iqxgtp o gpvu/"Qticpk|cvkqpu"Vcdngu"7."8."cpf"32⁰"

⁴⁴"See 69"EHT"rctv"323."uwdrcvtu"E"cpf"K0"

⁴⁵"See 69"EHT"rctv"323."uwdrcvtu"E"cpf"J0"

⁴⁶"Cwzknkct {"Oketq y cxg"Ugtxkeg"ku" i qxgtpgf"d {"rctv"96"qh"vkng"69"qh"vjg"Eq o o kuukqpu"twngu⁰"See"69"EHT"rctv"96⁰" Cxckncdng"vq"nkegpuggu"qh"dtqc fecu"uvcvkqpu"cpf"vq"dtqc fecu"cpf"ecdng"pgv y qtm"gpvkkgu."dtqc fecu"cwzknkct {" o ketq y cxg"uvcvkqpu"ctg"wugf"htq"tgnc {"kpi"dtqc fecu"vngxkukqp"uk|pcnu"htq o "vjg"uwvfkq"vq"vjg"vtcpu o kvgt."qt"dgy y ggp" v y q"rqpku"uwej"cu"o cklp"uwvfkq"cpf"cp"cwzknkct {"uwvfkq⁰"Vjg"ugtxkeg"cnuq"kpewfg"u o qdkg"VX"rkemwru."y jkej"tgnc {" uk|pcnu"htq o "c"tg o qvg"nqecvkqpu"dcem"vq"vjg"uwvfkq⁰"

⁴⁷"See 69"EHT"rctv"52."

⁴⁸"See 69"EHT"rctv"323."uwdrcvtu"S0"

⁴⁹"See 69"EHT"rctv"323."uwdrcvtu"N0"

^{4:}"See 69"EHT"rctv"323."uwdrcvtu"I 0"

^{4:}"Ugg"i⁰"

⁵²"See 69"EHT"ÈÈ"3230755."323032390"

⁵³"Vjgug"uvcvkqpu"ctg"dcugf"qp"ctg"vq"y"qh"vjg"Wpkxgtucn"Nkegpukpi"U {"uvg o "qp"Ugrvg o dgt"44."42370"

⁵⁴"See"W0U0"Egpuwu"Dwtgcw."2017 NAICS Definition, "517312 Wireless Telecommunications Carriers"*except Satellite+.8"jvruklly y v0egpuwu0ixleik/dkpluuw0pckeu0pckeu0jAeqfg?739534 (ugcte j?4239 '42PCKEU '42Ugcte j0"

⁵⁵"See"35"EHT"È"3430423."PCKEU"Eqfg"739534*rtgkxqun {"739432+0"

g o r n q { g g u . " c p f " 3 3 " g u v c d n k u j o g p v u " j c f " g o r n q { o g p v " q h " 3 . 2 2 2 " v q " 4 . 6 ; ; " g o r n q { g g u 0 7 5 " V j g t g h q t g . " v j g " E q o o k u u k q p " g u v k o c v g u " v j c v " v j g " o c l q t k v { " q h " o c p w h c e v w t g t u " k p " v j k u " k p f w u v t { " c t g " u o c m n " g p v k v k g u 0 "

390^A *Internet Service Providers (Non-Broadband)*. K p v g t p g v " c e e g u u " u g t x k e g " r t q x k f g t u " u w e j " c u " F k c n / w r " K p v g t p g v " u g t x k e g " r t q x k f g t u . " X q k R " u g t x k e g " r t q x k f g t u " w u k p i " e n k g p v / u w r r n k g f " v g n g e q o o w p k e c v k q p u " e q p p g e v k q p u " c p f " K p v g t p g v " u g t x k e g " r t q x k f g t u " w u k p i " e n k g p v / u w r r n k g f " v g n g e q o o w p k e c v k q p u " e q p p g e v k q p u " * g 0 i 0 . " f k c n / w r " K U R u + " h c m " k p " v j g " e c v g i q t { " q h " C m n " Q v j g t " V g n g e q o o w p k e c v k q p u 0 7 6 " V j g " U D C " j c u " f g x g n q r g f " c " u o c m n " d w u k p g u u " u k | g " u v c p f c t f " h q t " C m n " Q v j g t " V g n g e q o o w p k e c v k q p u " y j k e j " e q p u k u v " q h " c m n " u w e j " h k t o u " y k v j " i t q u u " c p p w c n " t g e g r v u " q h " & 5 7 " o k n n k q p " q t " n g u u 0 7 7 " H q t " v j k u " e c v g i q t { . " W 0 U 0 " E g p u w u " D w t g c w " f c v c " h q t " 4 2 3 4 " u j q y " v j c v " v j g t g " y g t g " 3 . 6 6 4 " h k t o u " v j c v " q r g t c v g f " h q t " v j g " g p v k t g { g c t i 0 7 8 " Q h " v j g u g " h k t o u . " c " v q v c n " q h " 3 . 6 2 2 " j c f " i t q u u " c p p w c n " t g e g r v u " q h " n g u u " v j c p " & 4 7 " o k n n k q p 0 7 9 " E q p u g s w g p v n { . " w p f g t " v j k u " u k | g " u v c p f c t f " c " o c l q t k v { " q h " h k t o u " k p " v j k u " k p f w u v t { " e c p " d g " e q p u k f g t g f " u o c m n 0 "

3 : 0^A *Internet Service Providers (Broadband)*. " D t q c f d c p f " K p v g t p g v " u g t x k e g " r t q x k f g t u " k p e n w f g " y k t g f " * g 0 i 0 . " e c d n g . " F U N + " c p f " X q k R " u g t x k e g " r t q x k f g t u " w u k p i " v j g k t " q y p " q r g t c v g f " y k t g f " v g n g e q o o w p k e c v k q p u " k p h t c u w t w e v w t g " h c m " k p " v j g " e c v g i q t { " q h " Y k t g f " V g n g e q o o w p k e c v k q p " E c t t k g t u 0 7 : " Y k t g f " V g n g e q o o w p k e c v k q p u " E c t t k g t u " c t g " e q o r t k u g " q h " g u v c d n k u j o g p v u " r t k o c t k n { " g p i c i g f " k p " q r g t c v k p i " c p f l q t " r t q x k f k p i " c e e g u u " v q " v t c p u o k u u k q p " h c e k n k v k g u " c p f " k p h t c u w t w e v w t g " v j c v " v j g { " q y p " c p f l q t " n g c u g " h q t " v j g " v t c p u o k u u k q p " q h " x q k e g . " f c v c . " v g z v . " u q w p f . " c p f " x k f g q " w u k p i " y k t g f " v g n g e q o o w p k e c v k q p u " p g v y q t m u 0 " V t c p u o k u u k q p " h c e k n k v k g u " o c { " d g " d c u g f " q p " c " u k p i n g " v g e j p q n q i { " q t " c " e q o d k p c v k q p " q h " v g e j p q n q i k g u 0 7 : " V j g " U D C " u k | g " u v c p f c t f " h q t " v j k u " e c v g i q t { " e n c u u k h k g u " c " d w u k p g u u " c u " u o c m n " k h " k v " j c u " 3 . 7 2 2 " q t " h g y g t " g o r n q { g g u 0 8 2 " W 0 U 0 " E g p u w u " D w t g c w " f c v c " h q t " 4 2 3 4 " u j q y " v j c v " v j g t g " y g t g " 5 . 3 3 9 " h k t o u " v j c v " q r g t c v g f " v j c v { g c t i 0 8 3 " Q h " v j k u " v q v c n . " 5 . 2 : 5 " q r g t c v g f " y k v j " h g y g t " v j c p " 3 . 2 2 2 " g o r n q { g g u 0 8 4 " E q p u g s w g p v n { . " w p f g t " v j k u " u k | g " u v c p f c t f " v j g " o c l q t k v { " q h " h k t o u " k p " v j k u " k p f w u v t { " e c p " d g " e q p u k f g t g f " u o c m n 0 "

3 ; 0^A *Cable System Operators (Telecom Act Standard)*⁰ " V j g " E q o o w p k e c v k q p u " C e v " q h " 3 ; 5 6 . " c u " c o g p f g f . " c n u q " e q p v c k p u " c " u k | g " u v c p f c t f " h q t " u o c m n " e c d n g " u { u v g o " q r g t c v q t u . " y j k e j " k u " o c " e c d n g " q r g t c v q t " v j c v . " f k t g e v n { " q t " v j t q w i j " c p " c h h k n k c v g . " u g t x g u " k p " v j g " c i i t g i c v g " h g y g t " v j c p " q p g " r g t e g p v " q h " c m n " u w d u e t k d g t u " k p " v j g " W p k v g f " U v c v g u " c p f " k u " p q v " c h h k n k c v g f " y k v j " c p { " g p v k v { " q t " g p v k v k g u " y j q u g " i t q u u " c p p w c n " t g x g p w g u " k p " v j g " c i i t g i c v g "

⁷⁵ *Id.* " V j g " c x c k n c d n g " W 0 U 0 " E g p u w u " D w t g c w " f c v c " f q g u " p q v " r t q x k f g " c " o q t g " r t g e k u g " g u v k o c v g " q h " v j g " p w o d g t " q h " h k t o u " v j c v " o g g v " v j g " U D C " u k | g " u v c p f c t f 0 "

⁷⁶ *See* W 0 U 0 " E g p u w u " D w t g c w . " 2 0 1 7 N A I C S D e f i n i t i o n , " 5 1 7 9 1 9 A l l O t h e r T e l e c o m m u n i c a t i o n s . " [j v r u k | l y y v 0 e g p u w u | i q x l e i k / d k p l u u f l p c k e u l p c k e u t e j A k p r w w ? 7 3 9 ; 3 ; \(u g c t e j ? 4 2 3 9 - P C K E U - U g c t e j \(u g c t e j ? 4 2 3 9 0 \)](#)

⁷⁷ *See* " 3 5 " E H T " E " 3 4 3 0 4 2 3 . " P C K E U " E q f g " 7 3 9 ; 3 ; 0 "

⁷⁸ *See* W 0 U 0 " E g p u w u " D w t g c w . " 2 0 1 2 E c o n o m i c C e n s u s o f t h e U n i t e d S t a t e s . " V c d n g " K F < " G E 3 4 7 3 U U U \ 6 . " I n f o r m a t i o n : S u b j e c t S e r i e s - E s t a b a n d F i r m S i z e : R e c e i p t s S i z e o f F i r m s f o r t h e U . S . : 2 0 1 2 . " P C K E U " E q f g " 7 3 9 ; 3 ; . " [j v r u k | l f c v c l e g p u w u | i q x l e g f u e k l v c d n g A v g z v ? G E 3 4 7 3 U U U \ 6 \(p ? 7 3 9 ; 3 ; \(v k f ? G E P U K \ G 4 2 3 4 0 G E 3 4 7 3 U U U \ 6 \(j k f g R t g x k g y ? h c n u g 0 \)](#)

⁷⁹ *Id.* " V j g " c x c k n c d n g " W 0 U 0 " E g p u w u " D w t g c w " f c v c " f q g u " p q v " r t q x k f g " c " o q t g " r t g e k u g " g u v k o c v g " q h " v j g " p w o d g t " q h " h k t o u " v j c v " o g g v " v j g " U D C " u k | g " u v c p f c t f 0 "

⁷ *See* W 0 U 0 " E g p u w u " D w t g c w . " 2 0 1 7 N A I C S D e f i n i t i o n , " 5 1 7 3 1 1 W i r e d T e l e c o m m u n i c a t i o n s C a r r i e r s , " " [j v r u k | l y y v 0 e g p u w u | i q x l e i k / d k p l u u f l p c k e u l p c k e u t e j A e q f g ? 7 3 9 5 3 3 \(u g c t e j ? 4 2 3 9 0 \)](#)

⁷ *Id.*

⁸² *See* " 3 5 " E H T " E " 3 4 3 0 4 2 3 . " P C K E U " E q f g " 7 3 9 5 3 3 * r t g x k q w u n { " 7 3 9 3 3 2 + 0 "

⁸³ *See* W 0 U 0 " E g p u w u " D w t g c w . " 2 0 1 2 E c o n o m i c C e n s u s o f t h e U n i t e d S t a t e s , " V c d n g " K F < " G E 3 4 7 3 U U U \ 7 . " I n f o r m a t i o n : S u b j e c t S e r i e s - E s t a b a n d F i r m S i z e : E m p l o y m e n t S i z e o f F i r m s f o r t h e U . S . " 2 0 1 2 . " P C K E U " E q f g " 7 3 9 3 3 2 . " [j v r u k | l f c v c l e g p u w u | i q x l e g f u e k l v c d n g A v g z v ? G E 3 4 7 3 U U U \ 7 \(p ? 7 3 9 3 3 2 \(v k f ? G E P U K \ G 4 2 3 4 0 G E 3 4 7 3 U U U \ 7 \(j k f g R t g x k g y ? h c n u g 0 \)](#)

⁸⁴ *Id.* " V j g " c x c k n c d n g " W 0 U 0 " E g p u w u " D w t g c w " f c v c " f q g u " p q v " r t q x k f g " c " o q t g " r t g e k u g " g u v k o c v g " q h " v j g " p w o d g t " q h " h k t o u " v j c v " o g g v " v j g " U D C " u k | g " u v c p f c t f 0 "

gzeggf"&472.222.2220i85""Cu"qh"423;. "vjgtg"ygtg"cr rrtqzk o cvgn{"6:.868.278"dcuke"ecdng"xfkgq"uwduetkdgtn"
kp"vjg"Wpkvgf"Uvcvgu086""Ceeqtfkpin{."cp"qrgtcvqt"ugtxkp i"hg ygt"vjcp"6:8.682"uwduetkdgtn"ujcnn"dg"fgg o g f"
c"u o cmm"qrgtcvqt"kh"kvu"cppwcn"tgxgpwgu."y jgp"eq o dkpgf"y kvj"vjg"qvcn"cppwcn"tgxgpwgu"qh"cnm"kvu"chhknkcvgu."
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eqnngv"u"kpht o cvkqp"qp"y jgvjgt"ecdng"u{uvg o "qrgtcvqtu"ctg"chhknkcvgf"y kvj"gpvkvkgu"y jqug"i tqau"cppwcn"
tgxgpwgu"gzeggf"&472" o knnkqp089""V jgtghqgtg."y g"ctg"wpcedng"cv"vjku"vk o g"vq"gvk o cvg"y kvj"i tgcvtg"r tgekukqp"
vjg"pw o dgt"qh"ecdng"u{uvg o "qrgtcvqtu"vjcv"y qwnf"swcnkh{"cu"u o cmm"ecdng"qrgtcvqtu"wpfgt"vjg"fghkpvkqp"kp"
vjg"Eq o o wpkckvqpu"Cev0

420A Intelligent Transportation System (ITS).""Vjg"Eq o o kuukqpou"qyp"fcvc o cxckncdng"kp"kvu"
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Rtkqt"vq"qrgtcvqkq."cr rnkcpvu"ctg"kuuwgf"c"pqp/gzenwukxg."igq i tcr jke"ctgc"nkegpug<"i qxgtp o gpvcn"gpvkvkgu"
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ctg"nkegpugf"dcugf"qp"gcej"cr rnkcpvu"ctgc"qh"qrgtcvqkq"*k0g0."d{"eqwv{"uvcvg."o wnvk/uvcvg."qt"pcvkqpykf g+0"
;3"nkegpuggu"ctg"eqpukfgtgf"orwdnke"uchgv{"gnk i kdngö"y kvj"vjg"tg o ckpki"55"swcnkhkgf"wpfgt"vjg"
Kpfwvutkcnldwukpguu"Rqqn"tgs wktg o gpvu0"Vjg"Eq o o kuukqp"fqgu"pqv"mpqy"j qy"o cp{"qh"vjgug"nkegpuggu"ctg"
u o cmm."cu"vjg"Eq o o kuukqp"fqgu"pqv"eqnngv"vjcv"kpht o cvkqp"ht"vjgug"v{rgu"qh"gpvkvkgu0

D. Description of Projected Reporting, Recordkeeping, and Other Compliance Requirements for Small Entities

430A Vjg"Hwtvjgt"Pqvkeg"rtqrugu"twngu"vjcv"y knn"chhgev"tgrqtvki"cpf"qvjgt"eq o rnkcpes"
tgs wktg o gpvu0

440A Vjg"Hwtvjgt"Pqvkeg"rtqrugu"vq"tguqnxg"vjg"vk o kpi."rtqegfwtgu."cpf"vgejpkcn"rctc o gvgtu"
cuuqekcvg"y kvj"vjg"vtpukvqkq"qh"vjg"wr fcvgf"70;" I J|"dcpf"rncp0""Urgekheccm{"vjg"Hwtvjgt"Pqvkeg"
rtqrugu"vq"cnny"hwmm/rqygt"qwwfqqt"wpnkegpugf"qrgtcvqpu"cetquu"vjg"70:72/70:;7" I J|"dcpf"qpeg"KVU"
qrgtcvqpu"jcxg"gzkvgf"vjku"rqtvkq"qh"vjg"dcpf"cpf"uwlde"vq"cp{"hwtvjgt"pgeguuct{"rtqvgevkqpu"ht"hgfgtcn"
qrgtcvqpu"kp"vjku"urgetv o 0""Vjg"Hwtvjgt"Pqvkeg"cnuq"uggmu"vq"guvcdnku"r qygt"cpf"g o kuukqp"nk o kvu"cpf"
qvjgt"twngu"tgncvg"vq"qwwfqqt"wpnkegpugf"qrgtcvqpu"kp"vjg"nqygt"67"o g i c j g t v | " q h " v j g " d c p f 0 " " V j g " H w t v j g t "
P q v k e g " c f f t g u u g " v t c p u k v q k p i " c m m " K V U " q r g t c v q p u " k p " v j g " t g x k u g f " K V U " d c p f " c v " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " v q " E / X 4 Z /
d c u g f " v g e j p q n i { . " k p e n w f k p i " v j g " c r r t q r t k c v g " v k o g n k p g " h q t " k o r n g o g p v c v k q p . " c p f " v j g " e q f k h k e c v k q p " q h " E / X 4 Z "
v g e j p k e c n " r c t c o g v g t u " h q t " q r g t c v q k q " k p " v j g " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " d c p f 0 " " V j g " H w t v j g t " P q v k e g " c n u q " u g g m u " e q o o g p v "

85"69"W0U0E0"E"765* o +*4+=""see"also"69"EHT"E"980;23*g+0"

86"U (R " I n q d c n " O c t m g v " K p v g n k i g p e g . " U . S . C a b l e S u b s c r i b e r H i g h l i g h t s , B a s i c S u b s c r i b e r s (a c t u a l) 2 0 1 9 . " U . S . C a b l e M S O I n d u s t r y T o t a l , s e e a l s o U . S . M u l t i c h a n n e l I n d u s t r y B e n c h m a r k s , U . S . C a b l e I n d u s t r y B e n c h m a r k s , B a s i c S u b s c r i b e r s 2 0 1 9 Y , <https://platform.marketintelligence.spglobal.com> . "

87"69"EHT"E"980;23*g+0"

88"U (R " I n q d c n " O c t m g v " K p v g n k i g p e g . " T o p C a b l e M S O s a s o f 1 2 / 2 0 1 9 , <https://platform.marketintelligence.spglobal.com> . ""Vjg"hxg"ecdng"qrgtcvqtu"cnm"jcf"o qtg"vjcp"6:8.682"dcuke"ecdng"uwduetkdgtn0

89"Vjg"Eq o o kuukqp"fqgu"tgegxg"uwej"kpht o cvkqp"qp"ecug/d{/ecug"dcuku"kh"c"ecdng"qrgtcvqt"cr rrgcnu"cn"nqecn"
htcpejkug"cwvjqt|g f"vkvk"i"vjcv"vjg"qrgtcvqt"fqgu"pqv"swcnkh{"cu"u o cmm"ecdng"qrgtcvqt"rtwuvcv"vq"E"980;23*g+"qh"
vjg"Eq o o kuukqpou"twngu0""See"69"EHT"E"980;32*d+0"

8:"See Hgfgtcn"Eq o o wpkckvqpu"Eq o o kuukqp."Universal Licensing System."jwv<lyktngnu0heef0ixlwnu0"Hqt"vjg"
rwrtrugu"qh"vjku"KTHC+."eqpukvqpv"y kvj"Eq o o kuukqp"rcevkq"ht"yktngnu"ugtxkegu."vjg"Eq o o kuukqp"gvk o cvgu"vjg"
pw o dgt"qh"nkegpuggu"dcugf"qp"vjg"pw o dgt"qh"wpkswg"HEE"Ti kvtcvkq"pw o dgtu0

qp" y jgvjgt"vjg"Eq o o kuukqp"ujqwnf"eqpukfgt"cmqecvkpi"cf fvkqpcn"urgetw o "hqt"KVU"cr rnkcevkqpu"kp"vjg" hwwwtg0"

450A Vjku"vtcpukvkqp"y knn"tgs wktg"vjg"Eq o o kuukqp."nkegpuggu."cpf" o cpwhcewttgtu"vq"vcmg"egtvcqp" cevkqpu."uwej"cu"fguk i pki"cpf"qr gtcvkpi"wpnkegpugf"fgxkegu"cpf"E/X4Z"gs wkr o gpv"rgt"vjg"Eq o o kuukqp0u" tgxkugf"twngu0"

E. Steps Taken to Minimize the Significant Economic Impact on Small Entities, and Significant Alternatives Considered

460A Vjg"THC"tgs wktgu"cp"ci gpe{"vq"fguetkdg"cp{"uk i pkhkecpv"cnvgtpcvkxgu"vj cv"kv" jcu"eqpukfgtgf" kp"tgcejki"kvu"rtqrqugf"cr rtqcej." y jkej" o c{"kpenwfg"vjg"hqnnq y kpi" hqwt"cnvgtpcvkxgu"*c o qpi"qvjgtu+<"*3+" vjg"guvcdnku j o gpv"qh"fkhhgtkpi"eq o rnkcepg"qt"tgrqtvkpi"tgs wktg o gpvu"qt"vk o gvcdngu"vj cv"vcmg"kpqv"ceeqwvp" vjg"tguqwtegu"cxckndig"vq"u o cnn"gpvkvgu="*4+"vjg"enctkhkecvkqp."eqpuqnfvcvkqp."qt"uk o rnkkecvkqp"qh" eq o rnkcepg"qt"tgrqtvkpi"tgs wktg o gpvu"wpfgt"vjg"twng"htq"u o cnn"gpvkvgu="*5+"vjg"wug"qh" rgtgt o cpeg."tcvjgt" vjcp"fguk i p."uvcpfctfu="cpf"*6+"cp"gzg o rvkqp"htq o "eqxgtc i g"qh"vjg"twng."qt"cp{"rctv"vjgtgqg."hqt"u o cnn" gpvkvgu08:"

470A Vjg"rtqrqucnu"vjcv"y qwnf"tgs wktg"gs wkr o gpv" o qfkhkecvkqp"qt"pgy"gs wkr o gpv" o cpwhcewtkpi"y qwnf"jcxg"cp"ko rcev"qp"gs wkr o gpv" o cpwhcewttgtu."uq o g"qh" y jkej" o c{"dg"u o cnn"gpvkvgu0" Vjqw i j"y g"dgngxg"vjcv"qwt"rtqrqugf"vgejpkecn"twngu"htq"W/PKK"fgxkegu"cpf"KVU"gs wkr o gpv"y qwnf"rtqxkfg" cr rtqrkcvg"twngu"htq"vjku"dcpf."y g"uggm"eq o o gpv"qp"cnvgtpcvkxgu"vjcv"ctg"dcugf"qp"vjg"gzkuvkpi"twngu"qt" uq o g"qvjgt"tgi wncvqt{"uejg o g."y kvj"tgictf"vq."g0i0."rqygt"nk o kvu"cpf"qww/qh/dcpf"g o kuukqpu"nk o kvu0"

480A Vjg"tgi wncvqt{"dwtfgpu"y g"jcxg"rtqrqugf"ctg"pgeguuct{"kp"qtfgt"vq"gpuwtg"vjcv"vjg"rwdnke" tgegxgu"vjg"dgpghkvu"qh"kpqxcvkxg"ugt xkegu"cpf"vgejpqng i kgu"kp"c"rtq o rv"cpf"ghhkegpp" o cpgt"cpf"cr rn{" gswcnn{"vq"nct i g"cpf"u o cnn"gpvkvgu."vjwu"y kvjqwv"fkhhgtgpvkcn"ko rcev0"" Y g"uggm"eq o o gpv"qp"cp{" cnvgtpcvkxgu."cpf"y jgvjgt"vjg"rtqu"cpf"eqpu"qh"ngcxkpi"vjgug"ejqkegu"vq"vjg"kpfwvvt{"y knn"cuukuv"kp"tgcejki" vjg"dguv"qvw eq o gu0" Y g"y knn"eqvkwpg"vq"gzc o kpg"cnvgtpcvkxgu"kp"vjg"hwvwtg"y kvj"vjg"qdlgevkvxgu"qh" gnk o kpcvkpi"wpgeguuct{"tgi wncvqpu"cpf" o kpk o k | kpi"cp{"uk i pkhkecpv"ko rcev"qp"u o cnn"gpvkvgu0"

F. Federal Rules that May Duplicate, Overlap, or Conflict with the Proposed Rules

Pqpg0

8: "See 7"WOUE0"È"825*e+0"

APPENDIX F

List of Commenters

7I"Cogtkecu"
 7I"Cwvqoqvkg"Cuuqekcvkqp"
 C0"Ecvjgtpg"Tkf."RG"
 CCC"
 CEGC."ENGRC"
 Cfxqecvgu"hqt"Jki jyc{"cpf"Cwvq"Uchgv{"
 Cktdwu"WO"
 Cktdwu"Wtdep"Oqdknv{"
 Cncp"T0"Ejcrocp."Vjqocu"C0"Ugxgt."D0"Cngzcpfgt"Jqhgnkej"*Iykppgw"Eqwv{"Fgrctv"gpv"qh"
 Vtcurqtvcvkqp+ "
 Cngzcpftg"Rgtguew"
 Cmkcpeg"hqt"Cwvqoqvkg"Kppqxcvkqp"
 Cmkcpeg"qh"Cwvqoqdkng"Ocpwhcevtgtu"
 Cn{"Ignngt."Uvrgjgp"Dkpijco."Cnxkp"Ngugt."Lwnkg"Okvejgm."Lqjp"Cngz"Nqygm."Hpggm"fq{ng."Lgp"Jqnv."
 Pcpe{"Jctkuqp."Lgpp{"[w."Cocpfc"ncod"
 Cn{uuc"t{cp"
 Cocpfc"Gtkemuqp"
 Cocvgt"tcfkq"
 Cocvgt"Vngxkukqp"Pgvyqtm"
 Cocvgt"Vngxkukqp"Pgvyqtm"/"Ecnkhtpkc"Ejcrvgt"
 Cogtkecp"Cuuqekcvkqp"qh"Uvcvg"Jki jyc{"cpf"Vtcurqtvcvkqp"Qhhkekcu"*CCUJVQ+ "
 Cogtkecp"Jki jyc{"Wugtu"Cmkcpeg"
 Cogtkecp"Jqpf"Oqvqt"Eq0."Kpel"
 Cogtkecp"Rwdnke"Vtcurqtvcvkqp"Cuuqekcvkqp"
 Cogtkecp"Rwdnke"Yqtmu"Cuuqekcvkqp"*CRYC+ "
 Cogtkecp"Uqekgv{"qh"Ekxkn"Gpikpggtu"*CUEG+ "
 Cogtkecp"Vtchhke"Uchgv{"Ugtxkegu"Cuuqekcvkqp"
 Cogtkecp"Vtwemkpi"Cuuqekcvkqp"
 Cown"lcfjk"
 Co{"OceMkppqp"
 Cpftgy"Mcfkpi"
 Cpftgy"Nwfnwo"
 Cpp"fqug{"

C r n k g f " k p h q t o c v k q p " k p e 0 "
 C r n k g f " k p h q t o c v k q p " k p e 0 . " V g o r n g . " k p e 0 . " V t c h h k e " R t q f w e v u " N N E "
 C T G F P "
 C t i q " C k . " N N E "
 C t k | q p c " E j c r v g t . " C o c v g w t " V g n g x k u k q p " P g v y q t m "
 C t m c p u c u " F g r c t v o g p v " q h " V t c p u r q t v c k q p "
 C T T N . " P c v k q p c n " C u u q e k c v k q p " q h " C o c v g w t " T c f k q "
 C u u q e k c v k q p " q h " I n q d c n " C w v q o c m g t u . " k p e 0 "
 C u u q e k c v k q p " q h " O g y t q r q n k v c p " R n c p p k p i " Q t i c p k | c v k q p u "
 C V (V " U g t x k e g u . " k p e 0 "
 C w i w u v " J " L q j p u q p "
 C w v q o q v k x g " U c h g v { " E q w p e k n "
 C w v q p q o { " k p u v k w v g "
 C w v q v c n m u "
 D g p " O e H c t n k p "
 D g p l c o k p " M 0 " F g t t { "
 D g p l c o k p " O k n m u "
 D k m n " R c p q u "
 D n c { p g ' G p e g . " V t c e { " G p e g "
 D O Y " I t q w r " 6 " C L 8 C Y "
 D q d " V j q t r g " " " "
 D t c p f q p " M c { "
 D t g w " R q r q x k e j "
 D t k c p " J g k p k v | "
 D t k c p " N " U j q t v "
 D t k c p " Y q t n g { . " C u u q e k c v k q p " q h " Q t g i q p " E q w p v k g u . " Q t g i q p " C u u q e k c v k q p " q h " E q w p v { " G p i k p g g t u " c p f " U w t x g { q t u "
 D t k c p " [g g "
 D t q c f e q o " k p e 0 "
 D t q c f e q o . " k p e 0 . " E c d n g N c d u . " H c e g d q q m . " k p e 0 . " P E V C " / " V j g " k p v g t p g v " (" V g n g x k u k q p " C u u q e k c v k q p "
 D t q c f e q o . " k p e 0 . " H c e g d q q m . " k p e 0 "
 D t w e g " D k n n g f g c w z "
 D t w e g " F 0 " D q p d t k i j v "
 D t w e g " O 0 " Y c t t g p "
 D w t v q p " R g c m g "
 E 0 " T c p v c n c "

Ecnkhqtpkc" Fgrctv o gpv"qh"Vtcurqtvcvkqp"
 Ecpfceg"C0"Oknngt"ó"MG8M [C""
 Ect"4"Ect"Eq o o wpkecvkqp"Eqpuqtvkwo "
 Ectnqu"Etgurq"
 Egpvgt"hqt"Cwvq"Uchgv{"
 Ejcf"L" I tquu"ó" Y2UCX"
 Ejctngu"C0"Oqqt yqqf"
 Ejctngu"G0" I gno "
 Ejctvgt"Eq o o wpkecvkqpu."Kpe0"
 Ejtku"Urgct."Rtukfgpv" ("EGQ"Cogtkecp"Vtwemkpi"Cuuekecvkqpu"
 Ejtkuvrjgt"Rctkug"
 Ejtkuvrjgt"Rvgtu"
 Ejtkuvrjgt"U0" Ygduvgt"
 Ejwem"FYggug"
 Ekpvtc"WU"
 Ekttwu"Cktetchv"
 Ekueq"U{uvgo u."Kpe0"
 Ekv|gpu"Cickpuv" Iqxgtp o gpv" Ycuvg"
 Ekv|gpu"Cickpuv" Iqxgtp o gpv" Ycuvg."Kppqxcvkqp"Geqqo {"Kpukvwvg."Kpukvwvg"hqt"Htggfqo."VgejHtggfqo."
 Cogtkecp"Eq o okv o gpv."Kpukvwvg"hqt"Rqke {"Kppqxcvkqp."Nguu" Iqxgtp o gpv."Octmgv"Kpukvwvg."
 Htggfqo Yqtmu."Vczrc{gtu"Rtqvgevkqp"Cnnkpeg."Egpvgt"hqt"Kpfxkfwcn"Htggfqo."Kppqxcvkqp"Fghgpug."
 Pcvkqpcn"Vczrc{gtu"Wpkqp."Nkpeqnp"Pgvyqtm."Cogtkecp"Eqpugtxcvkxg"Wpkqp."Cogtkecp"Ngikuncvkxg"
 Gzejcpi"Eqwpekn."CNGE"Cevkqp."Eqpuw o gt"Cevkqp"hqt"Uvtqpi"Geqqo {"Cogtkecpu"hqt"Vcz"Thgqto."
 Fkikvcn"Nkdgtv {"Vgejppnqi {" "Fgoqetce {"Rtqlgev"qh"vjg" Fkueqxt {"Kpukvwvg"
 Ekv {"qh" Ctnkpi vqp."Vgzcu"
 Ekv {"qh" Htgo qpv"
 Ekv {"qh" Htkueq."Vgzcu"
 Eqjfc" Yktnguu"Rv {"Nvf"
 Eqnkp"Oqqpg {"
 Eqnqtcfq" Fgrctv o gpv"qh"Vtcurqtvcvkqp"
 Eqoecuv"Eqtrqtvcvkqp"
 Eqo o gtekn"Xgjkeng"Uchgv {"Cnnkpeg"
 Eqo o gtekn"Xgjkeng"Vtckkpi"Cuuekecvkqp"
 Eqo o ukipkc."Kpe0"
 Eqo rgvkvxg" Gpvgt rtkug"Kpukvwvg"

Eqppgevkewv" Fgrctv o gpv"qh"Vtcurqtvcvkqp"
 Eqpuw o gt"Cevkqp"hqt" c"Uvtqpi "Geqqo o {."Kpe0"
 Eqpuw o gt" Tgrqtvu"
 Eqpvkpgpvcn" C I "
 Eqpvkpgpvcn" Cwvq o qvkg"U{ uvg o u"
 Eqpytc" Equvc"Vtcurqtvcvkqp" Cwvjqtqv{ "*EEVC+"
 Fc o qp" Uejcghgt"
 Fcp" F0"Vq o nkpuqp"
 Fcp"Vq o nkpuqp"
 Fcpkgn" Mtqpgu"
 Fcpkgn" Uqjp. "Lwnkgv" C"Uqjp"
 Fcpkgn" Twfgt o cp"
 Fctt{ n" Swkpp"
 Fcxkf" C0" Ncvj tqr. "Rj F"
 Fcxkf" Dewgt"
 Fcxkf" Dgm"
 Fcxkf" J kpmng{ "
 Fcxkf" L0" Mtgk| kpi gt"
 Fcxkf" Mce | qtqyumk"
 Fcxkf" Oqkpcqtq"
 Fcxkf" Yguv"
 Fcxkf" Y knkce o u"
 Fgpkul" Eqwwtg"
 Fgppku" C0" [ctf"
 Fgppku" Dcmgt"
 FGPUQ" Eqtrqtvcvkqp"
 Fgpuq" Kpvgtpcvkqpcn" C ogtkec. "Kpe0"
 FLK" Vgejpqni {."Kpe0"
 Fqpcnf" Dcemvtq o "
 Fqpcnf" J knn"
 Ft0" Tkejctf" Tq{ "
 FtkxgQjkq"
 FUTE" Cwvq" Uchgv{ "Eqcnkvkqp"
 Fyki jv" C0" J gpfgtuqp"
 F{ pce ke" U rgevtw o " Cnnkcepeg"

Gf y c t f " U 0 " E q n q p p c . " M 6 G U E "
 G n k | c d g v j " R g u v q n g u k "
 G o k m q " V j q o r u q p . " N q u " C p i g n g u " E q w p v { " R w d n k e " Y q t m u "
 G p g t i { " U g e w t k v { " N g c f g t u j k r " E q w p e k n * G U N E + . " U g e w t k p i " C o g t k e c u " H w w w t g " G p g t i { " * U C H G + "
 G p i k p g "
 G p x t q p o g p v c n " J g c n v j " V t w u v "
 G t k e " U c w g t n g g "
 H c e g d q q m . " K p e 0 "
 H c m n g t . " F e x k u " c p f " C u u q e k c v g u . " K p e 0 "
 H e t t g p " E q p u v c d n g "
 H E C " W U " N N E "
 H q t f " O q v q t " E q o r c p { "
 I c t { " J k p v q p "
 I c t { " U r w t t "
 I c t { " V j q o c u "
 I g p g t c n " C x k c v k q p " O c p w h c e v w t g t u " C u u q e k c v k q p "
 I g p g t c n " O q v q t u " N N E "
 I g q t g p | " M q q "
 I g q t i k c " F g r c t v o g p v " q h " V t c p u r q t v c v k q p "
 I g q t i k c " N g w w g p c p v " I q x g t p q t u " Q h h k e g . " I g q t i k c " F Q V . " H q t u { v j " E q w p v { . " C v n c p v c " T g i k a p c n " E q o o k u u k q p . "
 M E K " V g e j p q n q i k g u . " I t g c v g t " P q t v j " H w n v q p " E j c o d g t . " P q t v j " H w n v q p " E K F . " I t g u j c o " U o k v j . " M k o n g { " J q t p . "
 E k v { " q h " C n r j c t g w c . " E k v { " q h " L q j p u " E t g g m . " U v c p v g e " E q p u w n v k p i " U g t x k e g u . " K p v g n k i g p v " V t c p u r q t v c v k q p " U q e k g v { " / "
 I g q t i k c . " I g q t i k c " K p u v k w v g " q h " V g e j p q n q i { . " O q f g t p " O q d k n k v { " R c t v p g t u . " C v n c u " V g e j p k e c n " E q p u w n v c p u . "
 W v k n k e q o " U w r r n { . " E k v { " q h " U c x c p p e j . " C g t q v t q r n k u " C v n c p v c " E K F . " C r r n k g f " K p h q t o c v k q p . " K p e . " I y k p p g w "
 E q w p v { . " E q d d " E q w p v { " F Q V . " O g v t q r q n k v c p " C v n c p v c " T e r k f " V t c p u k v " C w v j q t k v { . " F q w i n c u " E q w p v { " F Q V . " E k v { " q h "
 T q u y g m n . " D c t i g " F g u k i p " U q n w v k q p u . " J P V D . " C E G E " I g q t i k c . " U v c v g " T q c f " c p f " V q n n y c { " C w v j q t k v { . " I g q t i k c "
 T g i k a p c n " V t c p u r q t v c v k q p " C w v j q t k v { . " C v n c p v c / t g i k a p " V t c p u k v " N k p m " C w v j q t k v { . " E n c { v q p " E q w p v { "
 I g t o c p " C u u q e k c v k q p " q h " v j g " C w v q o q v k x g " K p f w u v t { "
 I q x g t p o g p v " Y k t g n g u u " V g e j p q n q i { " (" E q o o w p k e c v k q p u " C u u q e k c v k q p "
 I q x g t p q t " D k n n " N g g . " U v c v g " q h " V g p p p g u u g g "
 I t g i q t { " V 0 " N c p g " / " M 9 U F Y "
 I w { " U 0 " E j c d q v "
 J C T O C P " K p v g t p c v k q p c n " K p e 0 "
 J c t x g { " E j k p "
 J c y c k k " D k e { e n k p i " N g c i w g "

J gkfk"Dtg y gt"
 J gkfk"L" Y knkc o u"
 J { w p f c k " C o g t k e c " V g e j p k e c n " E g p v g t . " K p e 0 "
 KGGG"382; " Y q t m k p i " I t q w r "
 KGGG" : 24 " N C P I O C P " U v c p f c t f u " E q o o k w v g g "
 K p p q x c v k q p " G e q p q o { " K p u v k v w v g . " K p v g t p c v k q p c n " E g p v g t " h q t " N c y " c p f " G e q p q o k e u . " E k v k | g p u " C i c k p u v "
 I q x g t p o g p v " Y c u v g . " V c z r c { g t u " R t q v g e v k q p " C n n k c p e g . " C o g t k e c p " E q o o k v o g p v . " C o g t k e c p " E q p u g t x c v k x g "
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 F k i k v c n " N k d g t v { . " E g p v g t " h q t " K p f k x k f w c n " H t g g f q o . " K p u v k v w v g " h q t " R q n k e { " K p p q x c v k q p . " H t g g f q o Y q t m u . " O c t m g v "
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 L 0 " U 0 " R c k i g "
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Oqtgqxtg. "kv"ku"ko rqtvcv"vq"tg o g d g t " v j c v " u r g e t w o " q v j g t " v j c p " v j g " 7 0 ; " I J | " d c p f " e c p " d g " w u g f o k p " h c e v " i s u s e d o h q t " c w v q o q v k x g " u c h g v {" v g e j p q n q i {" 0 " " H q t " g z c o r n g . " k p " 4 2 3 9 . " v j g " E q o o k u u k q p " o c f g " c x c k n c d n g " c " e q p v i w q w u . " h x g / i k i c j g t v | " d c p f " q h " u r g e t w o " k p " v j g " 9 8 / : 3 " I J | " d c p f " h q t " x g j k e w m c t " t c f c t " u { u v g o u 0 " " C p f " q v j g t " u g t x k e g u . " u e j " c u " v t c h h k e " n k i j v " u k i p c n " r t g g o r v k q p . " c t g " t g c f k n {" c x c k n c d n g " k p " q v j g t " d c p f u " u e j " c u " v j g " ; 2 2 " O J | " d c p f " c p f " v j g " 4 0 6 " I J | " d c p f 0 "

Uq. "pqv"vyjuvcpfkpi"vjg"kttgurqpukdng"tjgvqtke"qh"uq o g . " v j k u " E q o o k u u k q p " f q g u " e c t g " c d q w v " c w v q o q v k x g " u c h g v {" 0 " " K p f g g f . " k v " k u " r t g e k u g n {" d g e c w u g " y g " f q " v j c v " y g o t g " u j k h v k p i " h t q o " F U T E " v q " E / X 4 Z 0 " " V j g " u c f " h c e v " k u " v j c v " F U T E " j c u " f q p g " x k t w c m n {" " p q v j k p i " v q " k o r t q x g " c w v q o q d k n g " u c h g v {" 0 " " C " h g y " e q t r q t c v g " k p v g t g u u " e c p p q " u s w c v " q p " v j k u " u r g e t w o " h q t " c " i g p g t c v k q p " c p f " g z r g e v " v q " o c k p v c k p " c " u v t c p i n g j q n f " q p " k v " l w u v " d {" i k x k p i " k v " v j g " g o r v {" u n q i c p " q h " v j g " o u c h g v {" u r g e t w o o 0 " " P g c t n {" v y q " f g e c f g u " q h " h c k n w t g " k u " o q t g " v j c p " g p q w i j 0 " " V j g " C o g t k e c p " r g r n g " f g u g t x g " d g w g t 0 " " C p f " K " c o " q r v k o k u v k e " v j c v " E / X 4 Z " y k n n " c e v w c m n {" f g n k x g t " y j c v " F U T E " c f x q e c v g u " q p n {" r t q o k u g f " h q t {" g c t u < " c " y k f g n {" / c f q r v g f . " y k f g n {" / f g r n q {" g f " c w v q o q v k x g " u c h g v {" v g e j p q n q i {" v j c v " y k n n " u c x g " n x g u " q p " v j g " t q c f 0 "

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5 See. e0g0. 070; " I J | " D c p f " D q q u v " E q p u w o g t " K p v g t p g v " C e e g u u " F w t k p i " E Q X K F / 3 ; " R e p f g o k e o " O c {" 6 . " 4 2 4 2 + . " a v a i l a b l e a t " j w r u c l l f q e u t h e e l i q x l r w d n k e l c w c e j o g p v u l F Q E / 5 8 6 3 5 : C 3 0 r f h 0 "

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rcvj"htq"E/X4Z"fgnrq{ o gpv0"

Vwtpkpi"dcem"vq"vjg"uqpi."Give Me Just A Little More Time."vjg"Ejckt o gp"qh"vjg"Dqctf"ucpi."
ōNkhgōu"vqq"ujqtv"vq" o cmg" c" o kuvcmg."Ngvōu"vj kpm"qh" gcej"qvjgt"cpf"jgukvcvg"0"0"0"K"mpqy" y g"ecp" o cmg"kv."
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K" y cpv"vq"vjcpm"qwt"uvchh"htq"vjgkt"jctf" y qtm"kp"ftchvkpi"vjku"kv g o 0""Htq o "vjg"Qhhkeg"qh"Gpikpggtpki"
cpf"Vgejppnqi { { "Dcj o cp"Dcfrqwt."Tg|c"Dkc|ctcp."Dtkcp"Dwvngt."Lc o kg"Eqng o cp." Fcxkf" Fwctvg."Rcvtkem"
Hqtuvgt."Oqpkj c" I j quj." J q y c t f" I t k d q h h." O k e j c g n' J c."U { g f" J c u c p."U v g x g" L q p g u."K t c" M g n v |."R c w n" O w t t c {."
Ukqdcjp"Rjkn g o q p."Lc o kuqp"Rtk o g."Tqpcnf" Tgrcuk."Tqfpg{ "U o c m n."Fw u o c p v j c" V g p p c m q q p." c p f" C q n g"
Y k m k p u g n=" h t q o " v j g" G p h q t e g o g p v" D w t g c w < " O c w j g y" I k d u a p." L c p g v" O q t c p." c p f" C z g n" T q f t k i w g |=" h t q o " v j g"
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U o k v j." F q p c n f" U v q e m f c n g." c p f" L q g n" V c w d g p d n c w=" h t q o " v j g" Q h h k e g" q h" G e q p q o k e u" c p f" C p c n { v k e u < " R c v t k e m"
F g I t c d c." E j g t" N k." E c v j g t k p g" O c v t c x g u." R c v t k e m" U w p." c p f" C n g m u" [c p m g n g x k e j =" c p f" h t q o " v j g" Q h h k e g" q h"
I g p g t c n" E q w p u g n < " F g d q t c j" D t q f g t u a p." O k e j c g n" E c t n u a p." F c x k f" J q t q y k v |." c p f" D k m" T k e j c t f u a p 0

STATEMENT OF COMMISSIONER MICHAEL O'RIELLY

Tg<" Use of the 5.850-5.925 GHz Band."GV"Fqemg"Pq0"3;/35:0"

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Rgqrng"cum"o g"cmn"vjg"vk o g"y jcv"o {"gzrgtkpege"y cu"nkmng"cv"vjg"Eq o o kuukqp0"K"vgn"vjg o "vjcv"y kvj" c"uqwpf"xxukqp."uvtcvg ike"o qxgu."cpf"gzvtcqt fkpct {"rtgugxgtcpeg."c"Eq o o kuukqp"ecp"o qxg"o qwpvckpu0" Vjku"kvgo"y knn"cnyc {"u"dg"cv"gvuc o gpv"vq"o {"rqp0"

K"cr rrtqg0

STATEMENT OF COMMISSIONER BRENDAN CARR

Tg< Use of the 5.850-5.925 GHz Band."GV"Fqemv"Pq03;/35:0"

Kh"vjgtgou"ppg"vjkipi"o{"HEE"eqmgciwgu"cpf"K"cm"ci"tgg"qp."kvou"vjg"ko"rqvtcpeg"qh"okf/dcpf"urgetw"o"Kp"qwt"urggejgu"cpf"vguvk"o"qp{"kp"qwt"uvcvg"o"gpvu"cpf"vyggvu."yg"jcxg"cm"o"cf"g"kv"engct"vjcv"htggkpi"wr"cf"fkvqpcn"o"kf/dcpf"urgetw"o"ku"etkvecn"vq"C"ogtkec"ou"ngc"fgt"ujkr"kp"yktgnguu0"

Pqy."vcnmkpi"cdqvw"okf/dcpf"urgetw"o"ku"chct"gcukgt"vcum"vjcp"cevwcmm{"htggkpi"wr"vjku"uecteg"tguqwtg0"Cpf"vjcv"ku"y"j{"K"y"cpv"vq"ixkg"etf"kv"vq"Ejckto"cp"Rck."jku"vgc"o."cpf"vjg"Dwtg"cwu"cpf"Qhhkegu"p"pxqnxgf"ht"vjgkt"ghhqtvu"qxgt"vjg"rcuv"hg"y"{"gctu0"

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Cpf"qwt"cr"rtqcej"vq"okf/dcpf"urgetw"o"jcu"fgnkxgtgf"tguwvu0"Cv"407"IJ|.yg"wr"fcv"gf"vjg"twngu"htq"GDU"urgetw"o"vjcv"nckf"hcmmq"y"ht"vqq"nqi"0"Kp"vjcv"uc"og"dcpf."yg"ugewtgf"pvcqpykfg"dwkfqvw"eq"o"okv"ogp"vu0"Cv"507"IJ|.yg"gpwutgf"vjcv"qwt"twngu"y"qwnf"y"qtm"kp"vjg"tgc"y"qtnf"cpf"eq"o"ringvf"c"uweeguuhwn"cwewkq"p"gtckgt"vjku"{"gct0"Cv"509"vq"604"IJ|"*vjg"E"Depf+."yg"ugewtgf"cdqvw"522"OJ|"qh"okf/dcpf"urgetw"o"vq"gpdcng"rtqxf"gtu"vq"qhht"vtwn{"o"qdkng"7I0"Cv"8"IJ|.yg"qrgpgf"wr"cp"ko"ogp"ug"3.422"OJ|"qh"urgetw"o"0"Fqyp"cv"308"IJ|.yg"vqqm"nqi"qxgt"fwg"cewkq"vq"htgg"wr"vjcv"dcpf0"Cpf"cv"4"IJ|"*CYU/6+."yg"qdvc"kgf"c"eq"o"okv"ogp"vq"rww"vjcv"urgetw"o"vq"wug"ht"j"ki"j"urggf"dtqcf"dcpf0"

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