

**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.

**NOTICE OF APPEAL**

Pursuant to 47 U.S.C. §§ 402(b) and (c), 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 appeal 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 Notice of Appeal,

Petitioners are filing a Petition for Review pursuant to 47 U.S.C. § 402(a) and §§ 2342(1) and 2344, which vests jurisdiction in courts of appeal over FCC orders not subject to Section 402(b). Because this Court has jurisdiction to hear Petitioners' claims pursuant to § 402(b), § 402(a), 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 “choose 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). The Court also has jurisdiction to hear

under Section 402(b) “FCC decisions which involve issues ‘ancillary’” to licensing decisions enumerated in the statute. *See, e.g., N. Am. Cath. Educ. Programming Found., Inc. v. FCC*, 437 F.3d 1206, 1209 (D.C. Cir. 2006). 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 Notice of Appeal and the corresponding Petition.

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 Notice of Appeal is timely, as the *Order* was published in the Federal Register on May 3, 2021. *See* 47 U.S.C. § 402(c) (establishing a 30-day deadline for filing petitions for review following public notice of a licensing decision); *PSSI*, 983 F.3d at 7 (rejecting FCC's argument that "public notice" should be triggered by the release date of a licensing decision, where the order at issue

“modified thousands of earth station licenses at once”). Venue is proper pursuant to 47 U.S.C. § 402(b).

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 Notice of Appeal 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"q"0" ;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 k 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 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 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 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"q"0"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"q"0"3:/4;7- Expanding Flexible Use in Mid-Band Spectrum Between 3.7 and 24 GHz, I P " F q e m g v " P q 0 " 3 9 / 3 : 5 . " 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 / 7 3 . " 5 7 " H E E " T e f " 5 : 7 4 " \* 4 2 4 2 + " \* 6 G H z R e p o r t a n d O r d e r + " \* w p n k e g p u g f " w u g " q h " 7 0 ; 4 7 / 9 0 3 4 7 " 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"Gsvkwf{"Cev"hqf"vjg"43uv"Egprwt{"kp"y jkej"Eqpi tguu"fkfgevgf"vjg"Eq o o kuukqp"vq"eqpkfgt." kp"eqpuwncvkqp"ykvj"vjg"Ugetgvct{"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"hqf"KVU."kv"y cu" gzrgevgf"vjcv"vjg"dcpf"y qwnf"uwr rqtv"y kfgurtgcf"fgnrq{ o gpv"qh"u{uvgo u"vjcv"y qwnf"k o r tqxg"ghhkegpe{" cpf"rtq o qvg"uchgv{"y kvj"kp"vjg"pcvkqpou"vtcurqtvcvkqp"kphtcvtwevwtg0:""Kp"4225."vjg"Eq o o kuukqp"cfqrvgf" nkegpukpi"cpf"ugtxkeg"twngu"hqf"FUTE"qrgtcvkqpu"vjcv"urgekhhgf"u"ukp ing"vgej pqnq i kecn"uvcpcfctf"dcugf"qp" vjg"gzrgevgvkqp"vjcv."fgurkv"vjg"Eq o o kuukqpou"i gpgtci"rtghgtgpeg"hqf"ngcxkpi"vjg"ugngevkqp"qh" vgej pqnq i kgu"vq"nkegpuggu."c"ukp ing"uvcpcfctf"kp"vjku"dcpf"y cu" o quv"nkmgf{"vq"rtq o qvg"kpvtqr gtdcknkf" dgvy ggp"xgjkengu"cpf"kphtcvtwevwtg."gpcdng"tqdwu"cwvq o qvkg"uchgv{"eq o o wpkecvkqpu."cpf"ceengtcvg"vjg" pvcvkpykfg"fgnrq{ 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"y kvj"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"fgnrq{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"tcp i kpi"0"

:0A Tgegvn{"E/X4Z/dcugf"vgej pqnq i {"jcu"icpkpf"o q o gpvw o "cu"o gcpu"qh"rtqxfkpi" vtcurqtvcvkqp"cpf"xgjkeng"uchgv{/tgnvcgf"eq o o wpkecvkqpu033"Cu"gpvkukqpgf."E/X4Z"y qwnf"dg"rctv"qh"o c" eqppgevgf"xgjkeng"gequ{uvgo u"vjcv"rtqxfkgu"fkfgevgf"eq o o wpkecvkqpu"dgvy ggp"xgjkengu."dgvy ggp"xgjkengu" cpl"kphtcvtwevwtg."dgvy ggp"xgjkengu"cpf"qvjgt"tqcf"wgutu."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." Tgrqt"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"Gsvkwf{"Cev"hqf"vjg"43uv"Egprwt{" Rwd0"N0327/39:."E"7428h+."334"Uvcv0"329\*3; ; ;+\*"VGC"0"Vjg"VGC"fkf"pqv"tgsuktg"vjcv"vjg"Eq o o kuukqp"cnqcevg"vjg" 70;" I J |"dcp"hqf"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"hqf"FUTE"dcugf"qp"o c"hkpfkpi" vjcv"o FUTE"cr rnkcevkqpu"ctg"o mgf{"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{u00+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."Tgrqt"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;"\*kpeqrqtcvkpi"d{"tghgtgpeg"vjg"C o gtkecp"Uqekgv{"hqf"Vgukvpi"cpf" Ocvgtkcu"\*CUVO+"G4435/25"FUTE"uvcpcfctf"vjg"CUVO/FUTE"Uvcpcfctf+0"Kp"4232."KGGG"cfqrvgf"o pg y" uvcpcfctf:."24033r."hqf"yktnguu"ceeguu"kp"xgjkewncf"gpvktq o gpvu0"See"jwru<lucvpcfctfu0kgeq0t i lucvpcfctf l:24a33r/ 42320jv o n0"

33"Qp"Pqvg o dgt"43."423:."vjg"7 I "Cwvq o qvkg"Cuqekcvkqp"\*7 I CC+."cp"cuqekcvkqp"tgrtgupvki"cwvq o qvkg." vgej pqnq i {"cpf"vnggeq o o wpkecvkqpu"eq o rcpkgu."tgswgvgf"vjcv"vjg"Eq o o kuukqp"y cxg"vjg"FUTE/urgekhe"twngu"vq" cnq y"fgnrq{ 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"cv"vjg"wr r g t"g f i g"qh"vjg"70;" I J |"dcpf"klg0."vjg" 70;27/70;47" I J |"rqtvkqp"qh"vjg"dcpf+0"7 I CC"Rgvkqkp"hqf"Ycxgt"\*hkgf"Pqx0"43."423:+"see Office of Engineering and Technology and Wireless Telecommunications Bureau Seek Comment on 5GAA Petition for Waiver to Allow Deployment of Cellular Vehicle-to-Everything (C-V2X) Technology in the 5.9 GHz Band." I P"fqemgv"Pq0"3: /579." Rwdnke"Pqkge."FC"3: /3453\*Fge0"8."423: +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"7 I "Cwvq o qvkg"Cuqekcvkqp"\*7 I CC+."E/X4Z"jcu" v y q" o q f g"qh"qrgtcvkqp"kp"fkfgevgf"o qfg."vtcurqtvcvkqp"cpf"xgjkeng"uchgv{/tgnvcgf"eq o o wpkecvkqpu"ctg"vtcpu o kvvgf" \*eqpkpvgf 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"rtgfkevcdknk{"hqt"gpjcpgef"tqcf"uchgv{"cpf"gpici kpi"kp"cwvq o cvgf"
ftkxpi<sup>35</sup>"Pqvcdn{"E/X4Z"wugu"c"fkhhgtgpv"tcfkq"vgejppnqi {"uvpcfctf"vjcv"ku"kpeq o rcvkdng"ykvj" FUTE/
dcugf"qrgtcvkkpu<sup>36</sup>

;0A 5.9 GHz NPRM."Kp" Fgeg o dgt"423;"y g"kpvkcvqf"vjku"twng o cmkpi"rtqeggfkipi"vq"vcmg"c"
ohtguj"nqmqo"cv"vjg"qrvk o cn"wug"qh"vjg"xcnwdng"97"ogicjgtv|"vjcv"o cmgu"wr"vjg"70;"I J|"dcpf."ikxgp"\*3+
vjg"gzrppgvkcn{"itqykpi"fg o cpfu"ht"wpnkegpugf"cr rnkcevkkpu"ceeguu"vq"o kf/dcpf"urgetv o="\*4+vjg"
tgnvcvxn{"unqy"fgnrq{"gpv"qh" FUTE"gswkr 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"
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70;"I J|"dcpf"Vq"vjcv"gpf."y g"rtqrqgf"vq"etgcvq"uwd/dcpfu"ykvj"vjg"70;"I J|"dcpf"vq"cnqy"
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ogicjgtv|"qh"vjg"dcpf"\*70:;7/70;47" I J|+"ht"KVU<sup>37</sup>"Y g"tgcuppgf"vjcv"vjku"67152"ogicjgtv|"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"rqtvkqp"qh"vjg"dcpf"eqwnf"dg"eq o dkpgf"ykvj"urgetv o "kp"
cflcepv"dcpfu"vjcv"uwr rqt"jgcx{"wpnkegpugf"fgxkeg"wug"vq"rtqxfkfg"ewvki/gf ig"jki j/vjqtwi j rrw"
dtqfcdcpf"cr rnkcevkkpu"qp"ejcppnu"wr"vq"382"ogicjgtv|"y kfg."y jkng"vjg"KVU"rqtvkqp"qh"vjg"dcpf"yqwnf"
tg o ckp"fgfkecvqf"vq"o gg"ewttgpv"cpf"hwvwtg"KVU"pggf"ykvj"vjg"vtcpurqtvcvkqp"cpf"Xgjkewnct"uchgv {"
tgnvcv"gequ {uvg o 0"

320A Vjg"rtqrqucn"urgekhecn{"ecngf"ht"vjg"wr rgt o quv"42"ogicjgtv|"\*70:27/70;47" I J|+"vq"dg"
fgfkecvqf"vq"E/X4Z"cpf"cumgf"y jvgjgt"vq"fgukipcvq"vjg"tg o ckpki"32"ogicjgtv|"\*70:;7/70;27" I J|+"ht"
E/X4Z"qt"tgvcv"vjcv"32"ogicjgtv|"ht" FUTE<sup>38</sup>

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 oct {"cpf"5="7 ICC"Trn {"cv"47="Swneq o o "Eq o o gpvu"cv"80"

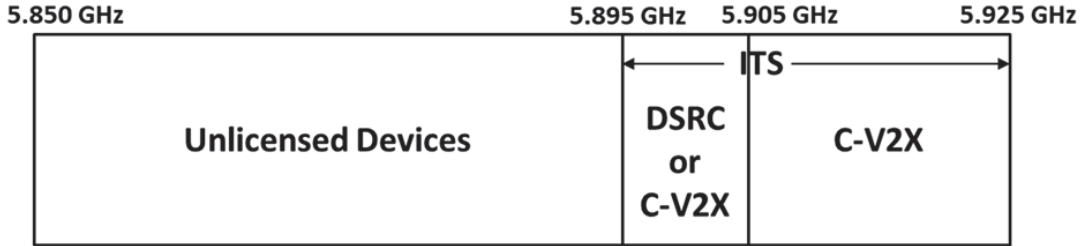
<sup>35</sup>See Swneq o o "Eqppgevkpi"Xgjkengu"vq"gxgt{vjkipi"ykvj"E/X4Z"cv"40"
jwruklly y y0swneq o o0eq o lkpXgpvkqpl7ilegnwnt/x4z="Ceengtcvki pi"E/X4Z"eq o o gteknk|cvkqp"cv"37."
jwruklly y y0swneq o o0eq o l o gfkclfqew o gpvulhknulceengtcvki pi/e/x4z/eq o o gteknk|cvkqp0r fh="7 I"PT"dcugf"E/
X4Z."jwruklly y y0swneq o o0eq o l o gfkclfqew o gpvulhknul7i/pt/dcugf/e/x4z/rtgugpvkqp0r fh="ncuv"xkukvgf"Qe0"49."
4242="7 I"C o gteku"Octe j"423:"Y jkng"Rcrgt."Egnwnt"X4Z"Eq o o wpkcevkkpu"Vq ctfu"7 I."cv"5."
jwruklly y y07ic o gteku0qti l y jkvg/rcrgtu0"Uq o g"qh"vjgug"hwpevkpu"yqwnf"dg"uwr rqtvgf"d {"vjg"gxqnwvkqp"vq"7 I"
Pgy" Tcfkq/dcugf"E/X4Z"0"Id."

<sup>36</sup>E/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"3600"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"

<sup>37</sup>See 5.9 GHz NPRM."56"HEE"Tef"cv"3482:."rctc0"330"

<sup>38</sup>See 5.9 GHz NPRM."56"HEE"Tef"cv"34835/38."retcu0"46/530"

Rtqrqugf"Dcpf"ncp



330<sup>4</sup> 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 p 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 p p" r c v j u"c p f"v j g" E q 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" E q 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<sup>39</sup>"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<sup>3</sup>:" 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 u<sup>3</sup>:" 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 u<sup>42</sup>"

340<sup>4</sup> 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<sup>43</sup>" 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 u<sup>44</sup>" 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 g<sup>45</sup>" 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 u<sup>46</sup>" 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"

<sup>39</sup> 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{" E q 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" E q o o k u u k q p" v g o r q t c t k n{" h t q |g"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"

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

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

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

<sup>43</sup> See 69"EHT"E"40328."P I 3820"

<sup>44</sup> See 69"EHT"E"40328"Hqqvppvg"703720"

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

<sup>46</sup> 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" E q 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"dgpgkhkvu"qh"fguki"pcvki"cu"uki"pkhkecpv"rqtkqp"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"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"cnug"vcmg"uvgru"kp"vjku"Hktuv"Trgrqtv"cpf"Qtfgt"vq"cwvjqt|g"wpnkegpugf"ugtxkeg"kp"vjg"70:72/70:;7" I J|"rqtvkqp"qh"vjg"70;"I J|"dcpf"cu"uqqp"cu"rquukndg"uq"vjcv"vjg"C"ogtkecp"rgqrng"ecp"dg"ikp"tgegxkp"vjg"dgpgkhkvu"qh"wpnkegpugf"qrgtcvkqpu"ykvj"qvw"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"okvcvqpu"fguki"pgf"vq"rtqvev"KVU"ugtxkeg"cpf"hgfgtcn"tcfct"qrgtcvkqpu"htq"o"jct"ohwn"kpvgthgtpego""Yg"cnug"y"knne"eqpukfgt"tsgwguv"htq"hwmm"rqygt"qvw"fqqt"qrgtcvkqpu"vj"tqwi"j"qwt"gzukvki"tgi"wnvcvt{"rtqegu"htq"kp"fkxkfwcnk|gf"cpf"vgo"rqctc{"ceeguu"vq"urgetw"o"\*g0i0."UVC"cpfliq"y"cxkgt+."y"jkej"y"knndg"eqqtfkpcvgf"y"kvj"PVKC"vq"gpuwtg"vjcv"hgfgtcn"kpew"odgpvu"ctg"rtqvevgf"htq"o"jct"ohwn"kpvgthgtpego""Yg"hwvtjgt"eqpenwfg"vjcv."vq"rtq"o"qv"vjg"o"quv"ghhkegvp"cpf"ghhgevkxg"vug"qh"vjg"urgetw"o"vjcv"y"knne"eqpvkpwg"vq"dg"fguki"pcvki"htq"KVU."qpn{"c"ukping"vgej"pqni{"ku"cr rtrtkcvg."cpf"y"y"knntgswktg"vug"qh"E/X4Z"vgej"pqni{"0""Rgpfpki"tguqnwvkqp"qh"vjg"vcpvkqpu"qh"KVU"qrgtcvkqpu"vq"E/X4Z."KVU"nkegpuggu"y"knndg"cdng"vq"eqpvkpwg"vjgkt"FUFE/dcugf"qrgtcvkqpu"qt."cnvgtcvkxgn{."vq"fgnrq{"E/X4Z/dcugf"qrgtcvkqpu"d{"qdvckpki"cu"y"cxkgt"uwdlgev"vq"urgekkgf"eqpfkvpku0"

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

360A Kp"vjg"5.9 GHz NPRM."yg"rtqrqgf"v"yq"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"dgngkxkpi"vjcv"vjku"yqwnf"qrvk"okig"vjg"vug"qh"vjg"70;"I J|"urgetw"o"tguqwtegu"vq"hwmm{"cpf"ghhgevkxgn{"ugtxg"vjg"C"ogtkecp"rgqrng049""Ukpeg"vjg"Eq"okuuqk"htuv"fguki"pcvki"vjg"70;"I J|"dcpf"htq"KVU"kp"3; ; ;."vtcpurqvcvkqp"cpf"xgjkewnct"uchgv{/tgnvcgf"vgej"pqni"kgu"jcxg"gxqnxgf"uki"pkhkecpvn{"cu"jcxg"fg"ocpfu"htq"ceeguu"vq"okf/dcpf"urgetw"o."rctkewnctn{"htq"wpnkegpugf"qrgtcvkqpu0""Dcugf"qp"qwt"gxcnwcvkqp"qh"vjg"vgej"cpigf"ektew"ouvcpegu."yg"jcxg"fgvgt"okpgf"vjcv"vjg"qrvk"ocn"vug"qh"vjku"dcpf"jcu"ej"cpigf"cu"y"gnm."cpf"vjcv"vjg"rwdnke"kpvgtguv"y"qwnf"dg"dgvggt"ugtxgf"d{"tgeqphk"i"wtkpi"vjg"70;"I J|"dcpf"kp"ceeqt"fepeg"y"kvj"qwt"rtqrqucn"vq"fguki"pcvki"67"ogicjgtv|"cv"70:72/70:;7" I J|+"cu"cn"nqygt"uwd/dcpf"htq"pgy"wpnkegpugf"vug."cpf"52"ogicjgtv|"cv"70:;7/70;47" I J|+"cu"cp"wr rgt"uwd/dcpf"htq"KVU"cr rncecvkqpu0""Trgrtrquki"vjku"xcnwdng"97/ogicjgtv|"rqtvkqp"qh"urgetw"o"kp"vjku"ocppgt"y"knngpuwtg"vjg"swkemguy"rcvj"vq"yctfu"kvu"o"quv"ghhkegvp"cpf"ghhgevkxg"vug0"

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

370A Fg"ocpf"htq"urgetw"o"vq"uwr"rqtv"wpnkegpugf"vug"jcu"kpvgpukhkf"kp"tgegpv{"gctu04:""Yk/Hk"ceeguu"rqkpvu"\*cpf"vjgkt"cuuqekcvgf"eqppgevgf"fgxkegu+"rtqxfg"jki"j"fcvc"tcvg"nqecn"ctgc"pgv"yqtm"eqppgevkqpu"htq"u"octv"r"jqpgu."vcdngvu."eq"orwvgtu."vgnxkukqp."cpf"qvjgt"fgxkegu"kpukfg"cpf"qvwukfg"vjg"jq"og"vq"kpvgteqppgev"y"kvj"cpf"ceeguu"vjg"Kpvgtpgv"Yk/Hk"jcu"dgeq"og"c"uvcrng"kp"C"ogtkecp"nhkg."cpf"ocp{"jqwug"jqnfu"tgn{"qp"Yk/Hk"vq"eqppgev"vq"vjg"Kpvgtpgv0""Kv"cnug"gpdcngu"fcvc"qhhnqcfkpi"htq"o"eq"og"teken"yktnguu"pgv"yqtmu"vq"tgnkxg"eqpi"guvkqp"y"jgp"eqpuw"ogt"fg"ocp"ku"jki"j04:""Kpfwvut{"uwwfkgu"rtqlgev"vjcv"

47"See 5.9 GHz NPRM."56"HEE"Tel"cv"34846/47."rctcu0"7;/840"
48"See 5.9 GHz NPRM."56"HEE"Tel"cv"34847/49."rctcu0"85/890"
49"5.9 GHz NPRM."56"HEE"Tel"cv"3482:/38."rctcu0"33/530"
4:"5.9 GHz NPRM."56"HEE"Tel"cv"3482;."rctcu0"360"
4:"5.9 GHz NPRM."56"HEE"Tel"cv"3482;."rctcu0"35/360""Qhhnqcfkpi"tgfwegu"vjg"co"qwpv"qh"fcvc"hnqykp"i"vj"tqwi"j"cu"ecttkgtou"pgv"yqtm."y"jkej"tgfwegu"vjg"rqvgpvkcn"htq"pgv"yqtm"eqpi"guvkqp"d{"htgkpi"dcpf"y"kvj"\*gurgekcn{"kp"kp"fqqt"gpvktg"ogpvu+"tguwnkpi"kp"ketgcvgf"rgthqt"ocpeg"htq"cnm"uwgtu0""Cu"nctig"co"qwpv"qh"fcvc"vtcpu"okuuqk"ctg"gz"rgevgf"
\*eqpvkpwgf i 0+"

vjg"W0U0"ykm"pggf"dgyv ggp"9: : " o g i c j g t v | " c p f " 3 0 8 " i k i c j g t v | " q h " p g y " o k f / d c p f " u r g e v t w o " d { " 4 2 4 7 " v q " c e e q o o q f c v g " v j g " i t q y k p i " f g o c p f " h q t " Y k / H k 0 5 2 " Y g " e q p v k p w g " v q " u g g m " y c { " u " v q " o g g v " v j g " i t q y k p i " f g o c p f " h q t " u r g e v t w o " v q " u w r r q t v " w p n e g p u g f " w u g 5 3 " c p f " g c t n k g t " v j k u " { g c t " c w v j q t k | g f " c f f k v k p c n " W / P K K " d c p f u " k p " v j g " 8 " I J | " d c p f . " c u " c u v c t v " v q y c t f " o g g v k p i " v j c v " d w t i g q p k p i " f g o c p f 0 5 4 "

380A Oqdkg"qrgtcvqtu"tqwkpgn{ "wug"wpnkegpugf"urgetvw o "hqt"pgvy qtm"qhnhqcfkpi"cpf" o qdkg" ecttkgt"jcxg"ykgfn{ "k o r n g o g p v g f " Y k / H k " e c n k p i 0 5 5 " V j g " q p i q k p i " r c p f g o k e " k p " v j g " W 0 U " j c u " h w t v j g t " k p e t g c u g f " t g n k c p e g " q p " Y k / H k " c u " o q t g " j q w u g j q n f u " c t g " w t p k p i " v q " f k u v c p e g " n g c t p k p i . " v g n g y q t m k p i . " c p f " u e q e c n " p g v y q t m k p i 0 5 7 " U k p e g " v j g " r c p f g o k e " d g i c p . " v j g " p c v k q p 0 u " t g n k c p e g " q p " k p / j q o g " e q p p e g v k x v { " j c u " k p e t g c u g f " f t c o c v k e c m { " c p f " v j k u " f g r g p f g p e g " c p f " t g n k c p e g " q p " w p n k e g p u g f " u r g e v t w o " f w t k p i " v j g u g " w p e g t v c k p " v k o g u " k u " g z r g e v g f " v q " e q p v k p w g 0 5 6 " H q t " g z c o r n g . " k p " O c t e j " C V ( V " t g r q t v g f " c " 9 8 ' " q x g t / v j g / c x g t c i g " k p e t g c u g " k p " Y k / H k " e c n k p i " o k p w v g u 0 5 7 " U k o k n c t n { . " E q o e c u v 0 u " Z h k p k v { " O q d k g " j c u " u g g p " c " 6 ; ' " k p e t g c u g " k p " k v u " Y k / H k " q h n h c f k p i " h t q o " k v u " o q d k g " f g x k e g u 0 5 8 " X g t k | q p " j c u " t g r q t v g f " y g g m / q x g t / y g g m " k p e t g c u g u " f w t k p i " r g c m " j q w t " w u c i g " y k v j " c " 9 7 ' " k p e t g c u g " h q t " i c o k p i . " 5 6 ' " k p e t g c u g " h q t " x k t w c n " r t k x c v g " p g v y q t m u " \* X R P u . " 4 2 ' " k p e t g c u g " k p " y g d " v t c h h k e . " c p f " 3 4 ' " k p e t g c u g " k p " x k f g q " u v t g c o k p i 0 5 9 " V j g " c x c k n c d k n k v { " q h " u r g e v t w o " h q t " w p n k e g p u g f " w u g " k u " o q t g " e t k v k e c n " v j c p " g x g t " d g h q t g 0 "

390A Vjg"ncvguv"Yk/Hk"uvcpfctfu."KGGG":24033cz"\* o ctmgvf"cu"o Yk/Hk"8o+"cpf":24033ce"ecp" fgkxgt"iki cdkv"urrgffu."uwr gkqt"rgthqt o cpeg"kp"etqy fgf"gpqxtp o gpwu."cpf"dgwgt"fgxkeg"dcvgt{"nkthg"vjcp" gctnkt"xtgukppu"qh"Yk/Hk"0"kp"rctkewuct."pgy"wpnkegpugf"fgxkegu"ctg"gzrgevfg"vq"rtqxxkukq"o czk o w o " urrgffu"vjcv"ctg"vyq/cpf/c/jcnh/vk o gu"hcuvgt"vjcp"rtgfgeguuqt"vejpqni{"."cpf"kpqtrqtcvg"hgcvwtgu"uwej"cu" o wnvk/wugt"o wnvkrng"kprrw"cpf"o wnvkrng"qwwrww"OW/OkOQ+"cpf"qtvjqipcn"htgswgpe{"fkkxkukq"o wnvkrng" ceegu"QHFOC+"vq"qrwk o k | g"fevc"vtcpu o kuukpp05:"Vjg"ncvguv"uvcpfctfu"rtqxxkf"hgzkdknkv{ o rgt o kvkpi" qrgtcvkp"wukpi"c"xctkv{"qh"dcpfykvju"kp"vjg"7" I J | " c p f " 8 " I J | " d c p f u " o d w v " t g s w k t g " y k f g / d c p f y k f v j " 3 8 2 / o g i c j g t v | " e j c p p n u " v q " f g n k x g t " v j g " o q u v " e c r c e k v { " c p f " c f x c p e g f " h g c v w t g u 0 5 : "

htq o " p g y " e q p p e g v g f " e q u w o g t " c p f " e q o o g t e k c n " f g x k e g u " q r g t c v k p i " q p " 7 I " p g v y q t m u . " v j g " f g o c p f " h q t " q h n h c f k p i " k u " g z r g e v g f " v q " t k u g " u k i p k h k e c p v n { 0 "

52" 5.9 GHz NPRM. "56"HEE"Te f"cv"3482; ; " r c t c 0 3 6 0 " See Uvvgxg"Ogvjng{" (" Ykknk o " Ygdd."Swqvkpvn"Cuuqeul"Nvf0."Wi-Fi Spectrum Needs Study"cv"48."4:"\*Hgd0"4239+."Tqnh"fg"Xgi"v"gv"cn0."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"Te f"cv"3482; ; " r c t c 0 3 6 0 "

54" Unlicensed Use of the 6 GHz Band."et al0."GV"Fqemvg"Pq0"3 : / 4 ; 7 " c p f " I P " F q e m v g " P q 0 " 3 9 / 3 : 5 . " 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 . " 5 7 " H E E " T e f " 5 : 7 4 " \* 4 2 4 2 + \* 6 G H z R e p o r t a n d O r d e r : 0 "

55" V/Oqdkg"Eq o o gpvu"cv"60"

56" Eq o e c u v " T g r n { " c v " 5 0 "

57" See Oqqkcc" Cmgxgp. "AT&T: Wi-Fi Calling Up 76%."Hkgteg Yktgnuu" \* Oct0"52."4242+." jwru<ll y y 0hkgteg yktgnuu0eq o l y k t g n u u l c v / v / y k / h k / e c n k p i / w r / 9 8 0 "

58" Uee Eq o e c u v . " E Q X K F / 3 ; " P g v y q t m " W r f c v g " \* n c u v " w r f c v g f " C r t 0 " 3 7 . " 4 2 4 2 + . " j w r u < l l e q t r q t c v g 0 e q o e c u v 0 e q o l e q x k f / 3 ; l p g v y q t m 0 "

59" Mkmk"Kpictcuw y cp. " J q y " E q t q p q x k u t w u " C h h g e v u " K p v g t p g v " W u c i g " c p f " Y j c v { " q w " e c p " F q " v q " O c m g " { " q w t " Y k / H k " H c u v g t " \* O c t 0 " 3 : . " 4 2 4 2 + " j w r u < l l y y v 0 p d e p e y { q t m 0 e q o l p g y u l n q e c n l j q y / e q t q p c x k t w u / c h h g e v u / k p v g t p g v / w u c i g / c p f / y j c v / { q w / e c p / f q / v q / o c m g / { q w t / y k / h k / h c u v g t l 4 5 5 4 3 3 9 1 0 "

5: " See, e.g., "Lceqd"Mcuvtpcmgu."Wi-Fi 6: is it really that much faster?"\*Hgd0"43."423; +." jwru<ll y y 0vjxgtig0eq o l 4 2 3 ; 1 4 1 4 3 1 3 ; 4 5 4 2 4 8 1 y k / h k / 8 / u r g g f / g z r n c k p g f / t q w v g t / y k h k / j q y / f q g u / y q t m 0 "

5: " See. "KGGG"Uvcpfctfu"Cuuqekcvkp."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<lluvcpfctfu0kggg0qt i l r t q l g e v l : 2 4 a 3 3 c z 0 j v o i " \* n c u v " x k u k v g f " Q e v 0 " 4 9 . " 4 2 4 2 + 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 qfcvki"vjg"pggfu"qh"dwukpguugu"cpf"eqpuw o gtu"hqt"hzkgf"cpf"o qdkg" dtqcf"dcpf"eq o o wpkecvkqpu"cpf"tgrtgugpv"ce"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"hqt"wpnkegpugf"fgxkegu"cpf"ecp"jgnr"vjg"Eq o o kuukqp"o ggv"vjg"eqpvkpwgf"fg o cpf"hqt" 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"eqpvki wqwu"dnqem"qh"wpnkegpugf"urgetw o "vjcv"eqwnf" ceeq o o qfcv"cxctkv{"qh"qrkvkqpu o kpenwfkpi"vyq": 2/o gicjgtv|"Y k/Hk"ejcppgnu."hqw"62/o gicjgtv|"Y k/ Hk"ejcppgnu."qt"cupkng"eqpvki wqwu"382/o gicjgtv|"Y k/Hk"ejcppgn0" Y g"hwvjt"pqvgf"vjcv."dgecwug"vjg" 70: 72/70: ; 7" I J | "uud/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"uud/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"hqt"o cmkpi"vjku"67"o gicjgtv|"cxkncdng"hqt"wpnkegpugf"qrgtcvkqpu066"Eq o ecuv"uvcv"vjcv"vjg" Eq o o kuukqpou"rtqrqucn"yqwnf"rtqfweg"ce"eqpvki wqwu"382/o gicjgtv|"wpnkegpugf"ejcppgn"vjcv"ecp"dg"wgugf" qp"cy kf gurtgcf"dcuku."uwr rqtvkpi"pgzv/i gpgtcvkq\*"Y k/Hk."cfxcpeki"7 I ."cpf"cf ftguukpi"vjg"uvtckp"qp" vqfc{ou"qxgtdwtfgpgf"Y k/Hk"htsgwpegku067"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"iki cdkv"eqppgevkxv{" y kvj"nqygt"ncvgepe{"k o rtqxf"eqxgtcig."cpf"rqygt"ghhkegpe{"vq"dg"fgnq{gf"kp"vjg"dcpf068"Rtqrqpgvu"qh" KVVU."jy yxgt."qr rqug"ugrctcvkpi"vjg"dcpf"kpvg"uig o gpvu"cpf"gzrcpfkpi"wpnkegpugf"wg"vq"vjg"nqygt"67" o gicjgtv|0"7 I "Cwvq o qvkg"Cuudekcvkq\*"7 I CC+."vjg" Cnkcpeg"hqt" 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"pggfgf"hqt"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"7 I 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"hqt"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"hqt"E/X4Z"vge jppnqi {"cpf"qvjgt"hqt" FUTE" vge jppnqi {"+"Cnkcpeg"hqt" Cwvq o qvkg"Kppqxcvkq\*"Tgrn{"cv"4;"\*tgeq o o gpfkpi"vjcv"hqt"vjg"htuv"7" {gctu"chgt"cf qrvkq\*" vjg"Eq o o kuukqp"ujqwnf"tgugtxg"vjg"wr rgt"42"o gicjgtv|"qh"vjg"70;" I J | " dcpf"hqt"Nqpi"Vgt o "Gxqnwvkq\*"Egnmwnct/ Xgj keng"vq"Gxgt{"v kpi"NVG"E/X4Z+."tgugtxg"vjg"nqygt"42"o gicjgtv|"qh"vjg"70;" I J | " dcpf"hqt" FUTE."cpf"o cmg"vjg" o kffng"52"o gicjgtv|"qh"vjg"70;" I J | " dcpf"cxkncdng"qp"ctkqtkv{"dcuku"hqt" Pgzv/ I gp" FUTE"cpf" C fxcpegf"7 I +"E/ X4Z"cr rncevkqpu"cu"vjg{"ctg"fgxgnrgf"cpf"fgnq{gf+"CRVC"Eq o o gpvu"cv"4"eqpvgpfkpi"vjcv"vjg"70;" I J | " urgetw o "ku"guugpvkcn"hqt"ewttgpv"cpf"hwvwtg"uchgv{"etkvecn"eq o o wpkecvkqpu"u{uvg o "fgrnq{ o gpvu"kp"cm"v{"rgu"qh" xgj keng."kpenwfkpi"vjg"ug"ugtxkpi"vjg"pggfu"qh"rwdnke"vtpurqtvcvkq+"Ect"4"Ect"Eq o o gpvu"cv"3"rtugtxg"vjg"97/ o gicjgtv|"urgetw o "dcpf"hqt"vtpurqtvcvkq"uchgv{"+"Vq{qvc" Tgrn{"cv"7"wtigu"o ckpckkpi"vjg"gpvktg"97"o gicjgtv|"qh" \*eqpvkpwgf i 0+"



dcpf"ujqwnf"dg"tgvcpgf"ht"uchgv{"cpf"qvjgt"vtcpurqtvcvkqp"rwtrqgu06:"kp"cf fkvkqp."uq o g"eq o g pvgtu" jcxg"uwi i guvgf"vjcv"y g"rqurppg"eqpukfgtvcvkqp"qh"qwt"rtqrqucn"ht"ugxgtcn" o qtg{"gctu"vq"ugg"kh"KVU" rtqxfkgtu"ecp"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 | "cv"70: 72/70: ; 7" I J |"cxckncdng"ht" wpnkegpugf"qrgtcvkqpu0" Y g"dgnkgxg"vjcv"vjku"cr rtqcej" yknn"rtqxfkg"vjg"C o g t k e c p"rwdnke" y k v j "v j g" o q u v" ghkhekgpv"wug"qh"urgetv o ."dcugf"qp"ewttgvp"cpf"hwvwtg"pggfuo0"V j g"eq 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 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 t v 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 v g p v k c m {" 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 t v o" y k n n" 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 t v 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 t v 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 t v 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 n n" 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 t v 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 n n" 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 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 t v 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 q" 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 n n" 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 t v 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 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 t v o" k p" v j g" 7 0 ; " I J |" d c p f" y k n n" d g p g h k v" e q p u w o g t u" x g t {"

urgetv o"kp"vjg"70;" I J |"dcpf"ht"KVU."eqpvgpfkpi"vjcv"y kfg"cpf" fkgxtug"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 t v o" h q t" K V U + 0

6: "W0U0" FQV" Tgrn {" cv" 5 \* h k n g f" 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 e g e 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 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 l 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" E q 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 rtqxf"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 rtqxf"cu"Uqhv y ctg"FGhkpgf"TCfkq."cu"nqpi"cu"uwej"ejcpigu"ctg"rgthqt o g" d{"uqhv y ctg"cpf"fq"pqv"tgs wktg"cp{"jctf y ctg"ejcpigu078""Yg"cpvkekr cvg"vjcv"o cp{"Yk/Hk"ceeguu"rqkvu"ewttgpnv{"qrgtcvkpi"wukpi"W/PKK/5"urgetw o."kp"cf fvkqp"vq"dgkpi"ecrcdng"qh"uqhv y ctg"wr i tcfgu."y knm"dg"cdng"vq"o ggv"vjg"tgs wktg o gpvu"y g"cfqr"vq"htq"kp fqqf/qpn{"fgxkegu079"

450A Cf fvkqpcnn{"rtqrqpgpvu"qh"wpnkegpugf"qrgtcvkqpu"i gpgtcnn{"ci tgg"vjcv"gs wr o gpv"o cpwhcevwgtu"y knm"dg"cdng"vq"tgc fkn{"cpf"equv/ghhgevkvgn{"o cpwhcevwgt"pgy"fgxkegu"ecrcdng"qh"gzrcpfkpi"qrgtcvkqpu"kp"vjg"W/PKK/5"dcpf"vq"kpewfvg"vjku"uwd/dcpf07:"Vjg"twngu"cfqrvgf"vq"fc{"y knm."kp"eq o dkpcvkqp"y kvj"vjg"qg"twngu"i qxgtkpi"vjg"cf lcegpv"W/PKK/5"dcpf."gpcdng"vjg"hktuv"eqpvki wquw"382/o gicjgtv|"ejcppgn"htq"W/PKK"fgxkegu"dgny"8" I J |"vjcv"y knm"pqv"tgs wktg"vug"qh"FHU"kpvgthgtgpeg"o kvki cvkqp"vgejppnqikgu."vjg"gs wr o gpv"cr rtqxcn"rtqeguu"y knm"dg"uvtck i j vht y ct f"cpf"pqv"gpvckn"cf fvkqpcn"eq o rngz"vguvu"vq"xtgkh{"FHU"qrgtcvkqp07"Vjg"Yk/Hk"cnkcepeg"uvcvgu"vjcv"tgs wktkpi"vjg"vug"qh"FHU"vgejppnqikgu"y qwnf"k o r gfg"urgetw o"vug"kp"uq o g"ecugu"dgecwug"kv"ecppqv"dg"ceeq o o qfcvfg" d{"uq o g"cr rnkcevkqpu."tgs wktg"cf fvkqpcn"egt vkhkcevkqp"cpf"cr rtqxcn."gzvvpfki"vko g/vq/o ctmgv."cpf"cf f"vq"fgxkeg"fgukip"eq o rngz kv{"cpf"equvu07:"Eq o ecuv"uvcvgu"vjcv"gs wr o gpv"fgxgnqrgf"y kvj qww"FHU"htq"vjg"70;" I J |"dcpf"y knm"dg"cxckcdng"uqqpgt"vjcv"gs wr o gpv"uwdlgev"vq"FHU"vguv"rtqegfwtgul082""kp"vjg"70;" I J |"dcpf."pqv"cfqr vki"c"tgs wktg o gpv"vjcv"wpnkegpugf"fgxkegu"kp eqtrqtcvg"FHU"vgejppnqikgu"o gcpu"vjcv"vjg"gs wr o gpv"cr rtqxcn"rtqeguu"y knm"dg"uvtck i j vht y ct f"cpf"pqv"gpvckn"cf fvkqpcn"eq o rngz"vguvu"vq"xtgkh{"FHU"qrgtcvkqp07"Vjg"tgc fkn{"cxckcdng"382/o gicjgtv|"ejcppgn"y knm"gpcdng"pgy"cr rnkcevkqpu"vjcv"y knm"jgnr"o ckpvckp"vjg"Wpkvgf"Uvcvgu"tqng"cu"cp"kpqqxcvt"cpf"i nqdcn"urgetw o"rqnke{"ngc fgt0"

460A Cf fvkqpcnn{"kv"cr rrgctu"vjcv"o cp{"yktnguu"Kpvgtgpgv"ugtxkeg"rtqxfktu"\*YKURu+"ewttgpnv{"jcxg"vjg"ecrcdng"vq"vug"vjg"67"o gicjgtv|"qh"vjg"70;" I J |"urgetw o"cpf"dgngxg"vjcv"vjg"ku"uw hkekgpv"ewuv o g"t"fg o cpf"vq"y ctcpv"kvu"vug083""Y j kng"y g"ctg"pqv"cmq y kpi"qww fqq"wpnkegpugf"vug"vq"fc{"cu"c"i gpgtcn"twng."y g"ctg"rtqrqkpi"twngu"htq"qww fqq"vug"kp"vjg"Hwtv jgt"pqvkeg"dgny"0""J q y gxt."y g"o c{"cmq y"uq o g"qww fqq"qrgtcvkqpu"kp"egtvckp"urgekkgf"nqecvkqpu"kp"vjg"dcpf"vj tqw i j"vjg"UVC"rtqeguu"\*k0g0."qp"c"ppp/kpvgtgtpgpeg"dcuku."y jgtg"uwej"qrgtcvkqpu"y qwnf"pqv"ecwug"jct o hwn"kpvgthgtgpeg"vq"cp{"kpew o dgpv"qrgtcvkqpu0"

470A Yg"eqpenwfg"vjcv"cwvj qtk|kpi"67"o gicjgtv|"qh"urgetw 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"Qhhkeg"qh"Gpikpggkpi"cpf"Vgejppnqi{"Ncdqtcvt{"Fkxkukp"Rgt o kuukxg"Ejcpig"Rqnke{"cv"7."Ugel"X0"C0."D0."cpf"9."Ugel"X0" I 0"\*39 : ;3;"F23"Rgt o kuukxg"Ejcpig"Rqnke{"x28+\*Qev0"38."4237+."jvru<|lcr ru0heel i qxlqqvehlm fdlht o ulHVUUGcete j TguwnvRci g0eh o Au y kve j ?R (kf ?552350"kp"uwej" c"ecug."vjg"hnkpi"htq"gs wr o gpv"cwvj qtk|cvkqp"o wuu"kpewfvg"c"eq o rngv"vguv"tgrqtv"fg o qpvtcvkpi"eq o rnkcepeg"y kvj"vjg"pgy"twngu"cpf"o c{"cnuq"tgs wktg" c"ejcpig"kp"gs wr o gpv"encuu"cuuqekcvfg"y kvj"vjg"pgy"twngu0"Id0"  
79" Yktnguu"Dtqcf dcpf"cnkcepeg"Pqx0"32."4242"Ex Parte"cv"30"  
7:" See, e.g.."Eq o ecuv"Eq o o gpvu"cv";="Qrgp"Vgejppnqi{"Kpvkvwvg"cpf"Rwdnke"Mpq y ngf i g"Eq o o gpvu"cv"9-"YKURC"Eq o o gpvu"cv"6/70"  
7;" Yk/Hk"cnkcepeg"Eq o o gpvu"cv"60"  
82"Eq o ecuv"Eq o o gpvu"cv";0"  
83" Yg"pqvg"vjcv"kp"ncvg"Octe j."vjg"HEE0u"Yktnguu"Vnggeq o o wpkevkqpu"Dwtgcw"\*YVD+"dg i cp"i tcpvki"vg o rqtct{"ceeguu"vq"70;" I J |"urgetw o"\*xkc"UVC+"htq"egtvckp"YKURu"vjcv"ugtxg"nct i gn{"twtcn"cpf"uwdwt dcp"eq o o wpkvku0"Vjg"UVCu"cmq y"YKURu"vq"vug"vjg"nq y gt"67"o gicjgtv|"qh"vjg"dcpf"vq"jgnr"ugtxg"vjgkt"ewuv o gtu0"Vq"fcvg."vjg"HEE"jcu"i tcpvgf"UVCu"vq"o qtg"v jcp"322"YKURu."cpf"o cp{"qh"vjg"qrg"rtqxfktu"jcxg"tgrqtvfg"vjcv"vjg"urgetw o"ku"jgnrkpi"vq"cf fgtuu"vjg"kpvtgugf"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+."jvru<|l y y 0heel i qxl f qew o gplv 7:/ i j /dcpf/dqquv/eqpuv o gt/kpvgtgpgv/ceeguu/fwtkpi/eqxf/3 ; /rcpfg o ke="Ngwgt"htq o"Oke j cgn"Ecrcdng."Fktgevt."Yktnguu"Uwvwtg"Rqtico."Qrgp"Vgejppnqi{"Kpvkvwvg."vq"Octngpg"J"0" 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"dgpghkvu"qh"KVU=" yg"cuuq"ugg"ceqpvpwkp i"tqng"hqt"vjg"70;" I J |"dcpf."cu"rctv"qh"cnctigt" gequ{uvgo"gpdcnkpi"KVU"ugtxkegu."kp"rtqxfkpi"vjgug"dgpghkvu"vq"vjg"Co gkcecp"rwdnke084" Egtvckp"KVU/ tgnvcvgf"hwpevkqpu"ctg"y gnm/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 rrtqvg"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"y knn"eqpvkpwg"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"y knn"gpwtg"eqpvkpwgf"cxckncdknv{ "qh"urgetw o "uwhhkekpp"hqt" FUTE"nkegpuggu" vq"eqpvkpwg"gzkuvkpi" rrgtcvkqpu"cpf"fgnq{ "vjqug"uc o g"ugtxkegu"cv"uecng0" Y g"eqpenwfg."cu"uwr rqtvgf"d{ " o cp{ "qh"vjg"eq o o gpvgtu."vjcv"tgugtxkpi"vjg"gpvktg"70;" I J |"dcpf"hqt"rquukdng"cf fvkqpcn"ugtxkegu"d{ "KVU" nkegpuggu"ku"pqv"vjg" o quv"ghhkekpp"qt"ghhgevkxg"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"ejcpigu"vq"vjg"dcpf"rncp"yg"cfqrv"qxtg"42{ "gctu"ciq"ctg"guugpvkcn"vq" o czk o k|g"vjg"wg"qh"vjku" xcnwcdng"urgetw o "hqt"vjg"rwdnke0" i tgcvgu"y gnm/dgkpi."rctvkewctn{ "Co gkcecpu"kp"twctn"ctgcu"vjcv"ncem" c fgswevg"dtqcdcpf"ceegu086"Vq"vjcv"gpv."yg"pqvg"vjcv" o cp{ "qh" Y KURC0" o g o dgtu"jcxg"dgpg"cdng"vq" o cmg"vg o rqtct{ "wug"qh"wpwugf"urgetw o "kp"vjg"70;" I J |"dcpf"vq"fgnkxgt"dtqcdcpf"kpvgtpgv"ceegu"ugtxkeg" vq"twctn"cpf"wpfgtugtxg"ctgcu"fwtkpi"vjg"ewtgpv"EQXKF/3;"rcpfg o ke087

4:0A Ugxgtcn"hevqtu"i wkfg"qwt"fgvgt o kpcvkqp"qh"jqy" o wej"urgetw o "vq"tgvcvkp"hqt"KVU<"\*3+"vjg" hcknwtg"qh"vjg"70;" I J |"dcpf"vq"dgeq o g"wg"wdkswkvwun{ "hqt"vjg"dtqcf"tcpig"qh"KVU"cr rnkcevkqpu"vjcv"ygtg" qtki kpcn{ "cpvkekrvcvgf"=\*4+"vjg"uvtqpi"rwdnke"kpvgtguv"dgpghkvu"vjcv"y knn"ceetwg"d{ "cnnq ykpi"wpnkegpugf"wg"kp" 67"ogicjgtv| "qh"vjg"70;" I J |"dcpf"="cpf"\*5+"vjg"pggf"hqt"fgfkecvf"70;" I J |"urgetw o "vq"uwr rqtv"eqtg" xgjkewnct"uchgv{ "cr rnkcevkqpu0" Y g"hkpf"vjcv"tgugtxkpi"52"ogicjgtv| "qh"urgetw o "hqt"KVU"y knn"uwr rqtv"vjg" rrtqxfkqp"qh"eqtg"uchgv{ /tgnvcvgf"hwpevkqpu"cpf"rtqxfkfg"eqpvkpwkp i"urgetw o "ceegu"hqt"gzkuvkpi"KVU" nkegpuggu"cwvjqtk|g"kp"vjg"dcpf0

a. 30 megahertz for ITS

4:0A Y jgp"vjg"Eq o o kuukqp"htuv"ugv"cu"kf"vjg"70;" I J |"dcpf"kp"3; ; ;.88"cp"gzvpgukxg"ugv"qh" rqpvgvkn" FUTE"cr rnkcevkqpu"y cu"kf"gpvkhkgf"hqt"vjg"dcpf o vjki u"uwej"cu"ovtchhke"nki jv"eqvptqn."vtchhke" o qpvktpki."vtcxngtu0"cnqtvu."cwvq o cvke"vqnm"eqmgevkqp."vtchhke"eqpi guvkqp"fgvgevkqp."g o gtigpe{ "xgjkevg" ukipcn"rtgg o rvkqp"qh"vtchhke"nki jv."cpf"gngevtqpk"kpurgvkvq"qh" o qxkpi"vtwemu"vtqwj"j"fcv"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 y0heeliqxlfqew o gpv17:/i j |/dcpf/dqquu/eqpuw o gt/kpvgtpgv/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 "kpvpgf"vq" k o rrtqvg"vjg"ghhkekpe{ "cpf"uchgv{ "qh"uwthceg"vtcpurqtvcvkqp"u{uvgo u0" See"Kpvgt o 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"Urgewt o "kp"70;" I J |"Tcpi g"hqt"Kpvgmki gpv"Vtcpurqtvcvkqp"U{uvgo u" Wug" Cevkqp" Y knn"K o rrtqvg"vjg" Ghhkekpe{ "qh"vjg" Pcvkqpu"Vtcpurqtvcvkqp"kphtcuvtwewwtg" Qe"43."3; ; ;+ " jwru1lfqeu0heeliqxlfqew o gpv17:/i j |/dcpf/dqquu/eqpuw o gt/kpvgtpgv/ceegu/fwtkpi/eqxf/3:/rcpfg o ke0" \*eqpvkpwgf i 0+ "



dcpf<sup>8</sup>: "cpf"tgeqipk|gf"vjcv" FUTE"fgrrnq{ o gpv"eqwnf"kpqxng"dqvj "xgjkeng/vq/xgjkeng"\*X4X+"cpf"xgjkeng/vq/kphtcuvtwewtg"\*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"twngu<sup>8</sup>: "kp"vjg"tgeqtf"uwr"rqtvkpi"vjcv" fgekukqp."pwogtqwu"rctvku"fguetkdgf"cp"gpuxtqpogpv"y jgtg"dqvj"rwdnke"uchgv{"cpf"rtkxcvg"wgutu"yqwnf" ujctg"vjg"dcpf."ykvj"rtqvqequ"vq"gpuwgt"vjcv"rwdnke"uchgv{"cevkxkvku"\*fghkpgf"gzrcpukxgn{+"yqwnf"jcxg" rtkqtkv{"qxgt"rtkxcvg"vtcpu"kuukqpu<sup>92n</sup>

520<sup>h</sup> Kp"vjg"42{"gctu"ukpeg"vjg"Eq o o kuukqp"fgukipcvvgf"vjg"70;" I J | "dcpf"ht" FUTE"wug."egtckp" xgjkeng/vq/xgjkeng"\*X4X+."xgjkeng/vq/kphtcuvtwewtg"\*X4X+."cpf"xgjkeng/vq/gxgt{vjki"\*X4Z+"dcuke"uchgv{" cpf"tgncvgf"crnkecvkqpu"jcxg"dggp"uvcpfctfk|gf0""Vjg"vgejpkcn"uvcpfctfu"ht"vjgug"dcuke"xgjkeng/vq/ xgjkeng"cpf"xgjkeng/vq/kphtcuvtwewtg"crnkecvkqpu"\*g0i0."Dcuke"Uchgv{"Oguucig."Rgtuqpcn"Uchgv{"Oguucig." cpf"tgncvgf"crnkecvkqpu+"ygtg"fgxngrgf"cpf"uvcpfctfk|gf"ugxgtn{"gctu"ciqôkpfggf."vjg" FUTE"302" uvcpfctf"ycu"tgngcugf"kp"42280<sup>93n</sup>

530<sup>h</sup> Dww"cevcn" FUTE/dcugf"KVU"ugtckeg"jcu"pqv"dggp"ykfgn{"fgrrnq{gf0""Vjgtg"ctg"33:"cevkxg" FUTE"nkegpugu"kp"vjg"Eq o o kuukqpu"fcvcdcu<sup>94n</sup>"Ceeqtfkpi"vq"vjg"C o gktecp"Cuuqekcvkq"qh"Uvcvg"

ôrgtqt o "qrgtcvkqpu"tgncvgf"vq"vjg"ko rrtxgo gpv"qh"vtchhke"hnqy."vtchhke"uchgv{"cpf"qvjgt"kpvgmki"gpv"vtcpurqtcvckp" ugtckeg"crnkecvkqpu"kp"cxctkv{"qh"rwdnke"cpf"eq o o gtekc"gpuxtqpogpvu00""DSRC Report and Order"Cr rz0"C."69" E0H0T0E"; 2090

<sup>8</sup>: "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. "Tgrqtv"cpf"Qtfgt."3; "HEE"Te"467: "\*4225+\*"DSRC Service Rules Order"+0 See also"69"EHT" ÈÈ"; 2059; "cpf"; 70537; "\*kpeqrqtcvki" d{"tghgtgpeg"vjg"C o gktecp"Uqekg{"ht"Vgukpi"cpf"Ocvgtkcu"\*CUVO+"G4435/ 25" FUTE"uvcpfctf"\*vjg"CUVO/ FUTE"Uvcpfctf"+0""kp"4232."KGGG"cfqrvgf"cp"y"uvcpfctf." : 24033r."ht"yktnguu" ceeguu"kp"xgjkewct"gpuxtqpogpvu0""See" [jwrucllyy0uvcpfctfu0kvu0fqv0iqxlUvfuUw o oct|Uvcpfctfu I tqwrAuvfi tqwr ?6290](http://www.fcc.gov/ohrt/2019/04/24/42320190424)""Qwt"twngu"eqpvpwg"vq"tghgtgpeg"vjg" CUVO/ FUTE"Uvcpfctf0

<sup>8</sup>: "C"tqc fukfg"wpkvu"\*TUW+"ku"cvtpuegkxgt"vjcv"ku" o qwpvgf"cnqpi" c"tqcf"qt"rgfgvutkcp"rcuucigy c{0""Cp" TUW" o c{ "cnuq" dg" o qwpvgf"qp" c"xgjkeng"qt"jcpf/ectkfg."dww"kv" o c{ "qrgtcvg"qpn{"y jgp"vjg"xgjkeng"qt"jcpf/ectkfg"wpkv"ku"uvcvqkpc{0"" Cp" TUW" dtqcfecuu"fcvc"vq"qp/dqctf"wpkvu"\*QDWu+"qt" gzejcpi"gu"fcvc"ykvj"QDWu"kp"kvu"eq o o wpkecvkqpu" |qpg0""TUWu" qrgtcvg"wpfgt"rctv"; 2"qh"vjg"Eq o o kuukqpu"twngu."y jkng"qp/dqctf"wpkvu"\*QDWu+"ctg" o qwpvgf"kp"xgjkeng"qt"ctg" rqtvcng"wpkvu"cpf"ctg"nkegpugf" d{"twng"wpfgt"rctv"; 7"qh"vjg"Eq o o kuukqpu"twngu0""Rqtvcng" TUWu" o c{ "dg"qrgtcvg" wrqp"i"tcp"qh"vjg"igqi"tcrjke/ctgc"nkegpug0""Nkegpuggu" o wu"tgikuvgt"crtrqtkcvg"fcvc"\*g0i0."ejcppgu."hqcckvq."r qygt." gvel"ht"gcej"hkzgf"ukg" TUW"ykvj"vjg"Eq o o kuukqp"rtkqtf"vq"kvu"qrgtcvkqpu0""Y jkng"pq"kp"fkxkfwcm"nkegpug"ku"tgswtg"vq" qrgtcvg"cp"QDW."uwej"wpkvu" o c{ "qpn{"vtcpu"ok"fcvc"cuuqekcvg"ykvj" c"xcnk"rctv"; 2"nkegpug0

<sup>92</sup>"See, e.g. "KVU" C o gktec"Eq o o gpvu."GV" Fqemg" Pq0"; : / ; 7. "cv"4"\*ô" FUTE/dcugf"KVU"ugtckegu"ykm"rtqxfg"vjg" vtexgkpi"rwdnke"ceeguu"xc" c"yktnguu"nkpm"vq" c"ykvf"cxctkv{"qh"rwdnke"uchgv{"cpf"pqv/rwdnke"uchgv{"ugtckegu"cpf" kphqt o cvkqp0"Vjgtqwi"j"cp"kpucnngf"vtcpuegkxgt"wpkv"kp" c"xgjkeng."ht"gzc o rng."c"ftkxgt"eqwnf"rc{"vqnu."rc{"ht"rctmkpi." tgekgx"vtchhke"cpf"tqcf"eqpflvkq"wr"fcvgu"cpf"jget"rwdnke"uchgv{"yctkpi" o guucigu0+= "OCTM"KX"kp"fwutkgu"NVF" Tgrn{"GV" Fqemg" Pq0"; : / ; 7. "cv"3"\*ô" Y g"rtqrqg"vjcv"vjg"ueqrg"qh"uwej"Rwdnke"Uchgv{"wugu"dg"gzrcpukxg"cpf" kpenwukxg"uq"vjcv"cn"qh"vjg"rwdnke"hwpevkqpu"tgncvgf"vq"gngevtqpk"vqnu"eqngevqkq."vtchhke" o qpkvqtkpi."eq o o gtekc"n" xgjkeng"cpf"cktrqtf"hecnkv{"ceeguu"qrgtcvkqpu."kp"cf"flvkq"vq" o cp{"qvjgtu."ctg"kpenwfgf0+= "Vgejpkcn"Chhcktu" Eq o o kvvg"qh"vjg"Cuqekcvkq"qh"Kpvtgcvkqpcn" Cwvq o qdkng"Ocpwhcevtgtu" Tgrn{"GV" Fqemg" Pq"; : / ; 7. "cv"30

<sup>93</sup>"C" FUTE" Hcev"Ujggv"ycu"tgngcugf" d{"W0U0" FQV"kp"Ugrvg o dgt"422: ."dcugf"qp"vjg" Fgeg o dgt"4228"Xgtukqp"302"qh" vjg" FUTE"uvcpfctf0""Kv"uvcvgu"ô"v"vjg"dcuke"uchgv{" o guucig"eqpvpku"xgjkeng"uchgv{/tgncvgf" kphqt o cvkqp"vjcv"ku" rgtkfkccm{"dtqcfecuu"vq"uwtqwpfkpi"xgjkeng"u00""See" [jwrucllyy0uvcpfctfu0kvu0fqv0iqxlUvfuUw o oct|Uvcpfctfu I tqwrAuvfi tqwr ?6290](http://www.fcc.gov/ohrt/2019/04/24/42320190424)""See jwrucllyy0uvcpfctfu0kvu0fqv0iqxlUvfuUw o oct|Uvcpfctfu I tqwrAuvfi tqwr ?6290

<sup>94</sup>"HEE" WNU"fcvcdcu"kpswkt{"qh"Qevqdt"48."42420""Cp"cwvjqt|cvkq"vq"qrgtcvg"kp"vjg" FUTE"ugtckeg" o c{ "dg" qdvckpgf" d{"cp"vgtkvt{"rquguukq."uvcvg."ekv{"eqwv{"vqyp."qt"uk o knct"i"qxgtp o gpcn"gpvk{"=cpf"cp{"rwdnke"uchgv{" \*eqpvpwgf 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" f g x g n q r g f " c p f " f g r n q { g f " q p " c " y k f g " u e c n g " v j t q w i j q w v " v j g " x g j k e w n c t " o c t m g v r n c e g . " k p e n w f k p i " v j g " e q o o g t e k c n " e q p u w o g t " c w v q o q d k n g " o c t m g v . " v q " k o r t q x g " v t c u r q t v c v k q p " u c h g v { " c p f " g h h k e k g p e { 0 " C f f k v k q p c m { . " u c h g v { " c p f " e q p x g p k g p e g " h g c v w t g u " c t g " k p e t g c u k p i n { " d g k p i " k p v i t c v g f " k p v q " e g n n r j q p g " c r r u " c p f " e q p p g e v " v q " q p / d q c t f " f k u r n c { u " v j t q w i j " w p n k e g p u g f " u r g e t w o " r t q v e q n u 0 " H q t " g z c o r n g . " v j g " Y c | g " f t k x k p i " c r r " w u g u " t g c n / v k o g " f c v c " u q w t e g f " d { " q v j g t " f t k x g t u " v q " f g n k x g t . " c o q p i " q v j g t " v j k p i u . " w r f c v g f " c e e k f g p v " c p f " e q p u v t w e v k p | q p g "

qt"kp f w u w t k n d w u k p g u u " g p i v { " o g g v k p i " v j g " r g t v k p g p v " g n k i d k n k v { " t g s w k t g o g p v u 0 " R t k t " v q " q r g t v c v k q p . " c r r n k c p v u " c t g " k u u w g f " c " p q p / g z e n w u k x g . " i g q i t c r j k e " c t g c " n k e g p u g < " i q x g t p o g p v c n " g p v k v k g u " c t g " c w v j q t k | g f " d c u g f " q p " v j c v " g p v k v { 0 u " n g i c n " l w t k u f k e v k q p c n " c t g c " q h " q r g t v c v k q p u e " c p f " p q p / i q x g t p o g p v c n " g p v k v k g u " c t g " n k e g p u g f " d c u g f " q p " g c e j " c r r n k c p v 0 u " c t g c " q h " q r g t v c v k q p " \* k 0 g 0 . " d { " e q w p v { . " u v c v g . " o w n k / u v c v g . " q t " p c w k p y k f g + 0 " See 69" EHT" E ; 205950"

95"CCUJVQ"Eq o o gpvu"cv"9"uvcvkpi"vjcv"56"uvcvgu"cpf"6"nqecnkvgu"jcxg"tqc fukfg"wpkv"nkegpugu+0" See also"Egpytccn" Qjkq"Vtcurkv" Cwv jqtqv{ "Eq o o gpvu"cv"32-"cpf"Kpvgmki"gpv"Vtcurqtvcvkqp"Uqekgv{ "qh" C o g t k e c " E q o o g p v u " c v " 3 ; / 4 2 0 "

96"See, e.g.."Ngwgt"htq o "Uvgxgp"Ngfgt o cp. "Eqwpugn"htq"KVU" C o g t k e c . " v q " O c t n g p " 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 C w c e j o g p v \* u n k f g " f g e m + \* h k n g f " Q e v 0 . : . 4 2 4 2 + \* f k u e w u k p i " f g r n q { o g p v " q h " X 4 Z " k p " P y y [ q t m " E k v { . " O k e j k i c p . " V c o r c . " c p f " V g z c u + 0 "

97" C e e q t f k p i " v q " W 0 U 0 " F Q V . " k v " j c u " r t q x k f g f " o q t g " v j c p " & 3 " d k n k q p " k p " h w p f k p i " h q t " F U T E " v g u v k p i " c p f " f g r n q { o g p v 0 " P E V C " E q o o g p v u " c v " 3 4 \* e k v k p i " W 0 U 0 " F Q V " H g d t w c t { " 4 2 0 " 4 2 4 2 " u n k f g " f g e m + " P r e s e r v i n g t h e 5 . 9 G H z S a f e t y B a n d f o r T r a n s p o r t a t i o n , " c v " u n k f g " 4 \* H g d 0 " 4 2 . " 4 2 4 2 + . " j w r u c l l y y 0 v t c u r q t v c v k q p 0 i x l t g u g e t j / c p f / v e j i p n q i { 1 r t g u g t x p i 7 ; i j l / u c h g v / d c p f / v t c u r q t v c v k q p / 2 0 " U v c v g " c p f " e q w p v { " F Q V " c i g p e k g u " j c x g " c n u q " k u u w g f " i t c p v u " c e e q t f k p i " v q " v j g " 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 u r q t v c v k q p " Q h h k e k c n u " C C U J V Q + 0 " See CCUJVQ" Eq o o gpvu. "Lwn{ "9.4238."cv"; /38"vq"70; " I J | "Public Notice."GV" Fqemgv" Pq0 35/6; .53"HEE" Tef"8352" \*4238+0"

98" H q t " g z c o r n g . " v j g " 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 u r q t v c v k q p " Q h h k e k c n u " C C U J V Q + " u v c v g " v j c v " v j g " E c n k h q t p k c " F Q V \* E c n V t e p u + " c p f " v j g " W p k x g t u k v { " q h " E c n k h q t p k c . " y k v j " h w p f k p i " h t q o " v j g " W 0 U 0 " F Q V " c p f " c " p w o d g t " q h " u v c v g u . " f g r n q { g f " F U T E " w p k v u " c v " 3 2 " k p v g t u g e v k q p u " k p " R c n q " C n v q . " E C " v q " v g u v " c p f " g x c n w c v g " O w n k / O q f c n " k p v g n k i " g p v " V t c h h k e " U k i p c n " U { u v g o " \* O O K V U U + " u q h v y c t g . " y j k e j " d n c n p e g u " r t k t k v k g u " d g v y g g p " v t c p u k v . " g o g t i g p e { " x g j k e n g u . " c p f " h t g k i j v " v t c h h k e " W v c j " F Q V " c p f " W v c j " V t c p u k v " C w v j q t k v { " j c x g " d g i w p " f g r n q { o g p v " q h " F U T E " w p k v u " c n q p i " c " e q t t k f q t " k p " v j g " U c n v " N e m g " E k v { " c t g e " t w p p k p i " O O K V U U " u q h v y c t g " v q " r t q x k f g " u k i p e n " r t k t k v { " v q " v t c p u k v " d w u g u . " y k v j " v j g " i q c n " q h " k o r t q x k p i " u e j g f w n g " t e n k c d k n k v { = c p f " R e p p u { n x c p k c " F Q V " c p f " E c t p i k g " O g n n q p " W p k x g t u k v { " j c x g " k p u v c n g f " " j c x g " k p u v c n g f " F U T E " c v " 5 7 " k p v g t u g e v k q p u " k p " v j g " p g k i j d q t j q q f u " q h " R k v u d w t i j " v q " d t q c f e c u v " U k i p c n " R j c u g " c p f " V k o k p i " f c v c " u " v j g " h k t u v " u v g r " q h " c " 4 7 / { g c t " r n c p " v q " k p u v c m " F U T E " k p " u k i p c n u " c p f " x g j k e n g u " v j t q w i j q w v " v j g " c t g c 0 " See CCUJVQ" Eq o o gpvu. "GV" Fqemgv" Pq0 35/6; .cv"; /38" \*Lwn{ "9.4238+0"

99 "See"Uvcvkucv"Eq o . "Pw o dgt"qh" o qvq" xgjkengu"tg ikuvgtgf"kp"vjg" Wpkvgf"Uvcvgu"htq o "3 ; ; 2"vq"423 : . " " j w r u c l l y y 0 u v c v k u c v l e q o l u v c v k u e 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 | \* n c u v " x l u k v g f " Q e v 0 " 4 9 . " 4 2 4 2 + 0 "

9: "See" Dwtgcw"qh" Vtcurqtvcvkqp"Uvcvkukcu. "Rwdnke" Tqcf"cpf"Uvtggv" O k n g c 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 w r u c l l y y 0 d w u 0 i q x l e a p v g p v l r w d n k e / t a c f / c p f / u v t g g v / 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 l u k v g f " Q e v 0 " 4 9 . " 4 2 4 2 + 0 "

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: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."yqtm|qpg"yctkpi."xgjkeng"uvqrrgf"qt" unqykpi."xgjkeng/vq/xgjkeng"eqmkuqk"cxqkfcpeg"ö vjcv"cr rrgct"vq"dg"cxckncdng"vqfc{"wukpi"pqp/FUTE"vgejppnqikgu"0

: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"Fcqemg"v"pq0"37/48."Tgrqv"cpf"Qtfgt."54"HEE"Teft":.44"4239+0

:5"Rcwn"Rkengtkpi."Vjg"tcfct"Vgejppnqi {"Dgjkpf"Cwvqpg o qwu"Xgjkengu."GEP"\*Fge0"9."4239:+" [jwru|lly y y/oh/gep/oci/eqo/lctvkegl42391341tcfct/vgejppnqi{/dgjkpf/cwvqpg o qwu/xgjkengu0](http://www.fcc.gov/oh/gep/oci/eqo/lctvkegl42391341tcfct/vgejppnqi{/dgjkpf/cwvqpg o qwu/xgjkengu0)"See also Eqvkwpgpvcn"CI." Eqvkwpgpvcn"Pgzt" I gpgtcvqk"tcfct"Vgejppnqi {"Gpcdnng"Pg y"Uchgv{"Hgcwvtgu"\*Cwi0"3;"423:+"

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:8"PEVC"TGrrn{"cv"3;/420

:9"PEVC"TGrrn{"cv"3;/420

::"PEVC"TGrrn{"cv"42/450

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: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"Jepppgevgf"xgj keng\_"cr rnkcevkqpu"htq"dcuke"ftxgt"yctpkpi u0+=""Ekueq" Eq o o gpvu"cv";/32"\*ö]k"v"cr rgtu"vjcv"X4X"etcuj"cxqkfcepg"ecp"dg"uwr rqtvgf."cpf"rquukdn {"qvjgt"cr rnkcevkqpuö"kp"52" o gicjgtv | +0"

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kphtcuvtwewtg cr rnkcevkqpu<sup>0</sup>: : "" Pqvcdn{. "vjg"gzkvkpi "FUTE"dcpf" rncp" fguki pcvgf" qpn{ "42" o g i c j g t v | "hqt" v y q"uchgv{ "e j c p p g n u" \* E j c p p g n " 3 9 4 " g z e n w u k x g n { " h q t " x g j k e n g / v q / x g j k e n g " u c h g v { " e q o o w p k e c v k q p u " h q t " c e e k f g p v " c x q k f c p e g " c p f " o k v k i c v k q p . " c p f " u c h g v { " q h " n k h g " c p f " r t q r g t v { " c r r n k e c v k q p u = " c p f " E j c p p g n " 3 : 6 " g z e n w u k x g n { " h q t " j k i j / r q y g t . " n q p i g t / f k u v c p e g " e q o o w p k e c v k q p u " v q " d g " w u g f " h q t " r w d n k e " u c h g v { " c r r n k e c v k q p u " k p x q n x k p i " u c h g v { " q h " n k h g " c p f " r t q r g t v { . " k p e n w f k p i " t q c f " k p v g t u g e v k q p " e q m n k u k q p " o k v k i c v k q p + 0 " " C p f " E c t " 4 " E c t o u " h k n k p i u " t g h n g e v " v j c v " 5 2 " o g i c j g t v | . " g x g p " k h " e j c p p g n k | g f " y k v j " p q " q x g t n c r . " e c p " c e e q o o q f c v g " x c t k q w u " e q t g " u c h g v { / 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 " 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 t g " h w p e v k q p u " u w e j " c u " D c u k e " U c h g v { " O g u a i g " c p f " R g t u q p c n " U c h g v { " O g u a i g " h w p e v k q p u . " y k v j " o q t g " u r g e v t w o " r q v g p v k c m n { " c x c k n c d n g " h q t " r n c v q p p k p i " c p f " q v j g t " u g t x k e g u : : ""

580<sup>4</sup> *Second.* "vjg"tgeqtf" fg o qpuvtcvgu" vjcv"52" o g i c j g t v | "ku" o qtg" vjcp" uwvhkekgpv" vq" rtgugtxg" KVU" nkegpuggu<sup>0</sup> cdkmkv{ "vq"gzrcpf" vjgk"gzkvkpi" uchgv{/tgncvfg" ugtxkegu" vq" o knkqpu" o qtg" xgjkengu<sup>0</sup> "Cu" W0U0" FQV" c p f " q v j g t v | 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 " " 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 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 "

590<sup>4</sup> *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 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 <sup>3 2 3</sup> " 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 u " 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 <sup>3 2 4</sup> " 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 m n k q p u " q h " e q o o g t e k c m 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 "

5:0<sup>4</sup> *Fourth.* "rtwfgpv" o cpcig o gpv" qh" tcfkq" urgevtw o " fg 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 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 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 v c d c u g u "

: : " X 4 k " h w p e v k q p u " k p e n w f g " c " e q m g e v k q p " q h " o g u a i g u " r t q x k f k p i " k p h q t o c v k q p " v q " v j g " f t k x g t " q h " v j g " e a p p p g e v g f " x g j k e n g " c p f " v q " v j c v " x g j k e n g " h t q o " u o c t v " t q c f " k p h t c u v t w e w t g 0 " V j g u g " k p e n w f g " v j t g g " e q o r q p g p v u " \* c + " u k i p c n . " r j c u g " c p f " v k o k p i " \* U R C V + " k p h q t o c v k q p . " y j k e j " k u " u g p v " d { " t g f " n k i j v u " v q " r t q x k f g " v j g " p g z v " i t g g p " r j c u g = " \* d + " o c r " f c v c . " y j k e j " f g u e t k d g u " t q c f " n c p g " v q r n q i { . " k p v g t u g e v k q p u . " c p f " v q " u q o g " g z v g p v " v t c h h k e " o c p g w x g t u . " u w e j " c u " v t c h h k e " e j c p i g u " v j t q w i j " e q p u v t w e v k q p | q p g u = " c p f " \* e + " k p / x g j k e n g " k p h q t o c v k q p . " y j k e j " e c t t k g u " k p h q t o c v k q p " u w e j " c u " u r g g f " n k o k v u 0 " . S e e " E c t " 4 " E c t " E q o o g p v u " c v " 5 0 "

: : " E c t " 4 " E c t " E q o o g p v u " c v " 4 . " V c d n g " 3 0 "

<sup>322</sup> " P E V C " E q o o g p v u " c v " 3 4 " \* s w v k p i " W 0 U 0 " F Q V + 0 "

<sup>323</sup> " 7 I C C " E q o o g p v u " c v " 8 / 9 0 "

<sup>324</sup> " S w c n e q o o " Q e v 0 " 3 8 . " 4 2 4 2 " E x P a r t e " c v " 3 0 "

<sup>325</sup> " U j q t v / 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 " q d u v c e n g " c x q k f c p e g . " e q m 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 c 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 a 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 m 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 i 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"pqp/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"vukpi"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"rtqrppgpvu"eqvpgf"vjcv"hwvwtg"cfxcpegf"KVU"hwpevkqpu"vjcv" o c{"dg"fgxgnqrgf" o c{"qhhgt"rqvgpvkc"gpjcpge o gpvu"vq"vgejppnqi kgu"fgxgnqrgf"cpf"ykgfn{"fg r nq {gf"kp" xgj kengu"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"xgj kewnct"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 u0<sup>326</sup>

5;0Å Fifth."yg"ctg"pqv"rgtuwcf"vjcv" o qtg"vjcp"52" o g i c j g t v | "ku"pggfgf"ht"rqvgpvkc"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 kuukqp0"twngu0"Vjg"97" o g i c j g t v | "kp"vjg"70;" I J | "dcpf"jcu"dggp"wpfwtwugf" hqt" o cp {"gctu."cpf" FUTE"ugtxkeg"jcu"pqv"dgpp"ykgfn{"fg r nq {gf0"Rqvgpvkc"hwvwtg"cfxcpegf"cr rnkecvkqpu." j q y g x g t . " c t g " u v k n 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 c 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 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 " ghkkekpe {"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 k p i " o q t g " u r g e t w o " g h h k e k 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 q 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 v " g h h k e k 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"inqden"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 <sup>327</sup> " 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 o u " 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 <sup>328</sup> " 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 <sup>329</sup> " 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 . <sup>32</sup> " 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 v " c r r t q r t k c v g " h t " k v u " 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 "

<sup>326</sup>W0U0" 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" fagu"pqv" wug" fktgev"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 "

<sup>327</sup>PEVC" Tgrn {"cv"49/540"

<sup>328</sup>Qrgp"Vgejppnqi {"Kpukvwwg"cpf"Rwdnke"Mpqyngfig"Eq o o gpvu"cv"420" See also Oqvq ("Gswkr o gpv"Ocpwhcewvgtgu" 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 " o 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 "

<sup>329</sup>See T"Uvtggy"Kpukvwwg"Eq o o gpvu"cv"80"

<sup>32</sup>"KVU"cmnqecvqpu"\*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"tgvcpkpi"uq o g"fgfkecvf"urgetw o "hqt"KVU"kp"vjku"htgswgpe { "tcpig o gurgekmn { "kp"vjg"wr rgt"42" o gicjgtv | . " y jkej" T"Uvtggv"kf gpvkhkku"cu"ovjg"qpn { "urgetw o "kp"eq o o qp"wg" cetquu"cm"eqwptkglu0332m"Qwt" rncp"vq"kpvtqfweg" E/X4Z"kp"vjg"dcpf. "kp"eqplwpevkqp" y kvj"qvjgt" cf o kpkuvtcvkqpu"uwr rqt"v"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"wg"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"wg"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"wg"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"rtqxfkpg y"ugtxkegu"ujqwnf"qr gtcvqtu"wg"urgetw o "ghhkekgpv" { 0" Y g" hkp f"vjcv"vjg"rwdnke" kpvgtguv"ku"dguv"ugtxgf" d { "fkxkfkpi"vjg"70;" I J | "dcpf"vq"cf f tguu"vjg"pggfu"qh"dqvj"KVU"cpf"wpnkegpugf" wugtu0

650A Y g"fkucitgg" y kvj "vjg"rqukvqp"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"qyp"urgetw o "uuvf { . "cempq y ngf i gu"vjcv"52" o gicjgtv | "ku" o qtg"vjcp"uw hkekgpv"vq"uwr rqt"vjg"kpvkcn"rjcugu"qh"KVU"vjcv"ctg"tgncv g f"vq"oc y ctgpguu" ftkxkpi. o" kpenwfkpi"ugxgtcn" xgjkeng/vq/xgjkeng"cr rnekcvkqpu" \*kpenwfkpi" Dcuke"Uchgv { "Oguuc i g"cpf"Rgtuqpcn" Uchgv { "Oguuc i g"cpf" xgjkeng/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 { "rtqxfk g"kp uwhkekgpv"uwr rqt"v" hqt" rncvqqkpi"335"qt" r tqvgevkqp"qh" wpeqppgevgf"oxwnpgtcdng"tqcf" wugtu0\* g0i 0. " r g f g u v t k c p u . " d k e { e n k u v u . " c p f " t q c f " y q t m g t u " y j q ' e c p p p q " u g p f l t g e g 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 + . 3 3 6 " 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 " q h " K V U " e w t t g p v n { " w p f g t " u u v f { " c u u q e k c v g f " y k v j " o u g p u k p i " f t k x k p i o " c p f " o e q q r g t c v k x g " 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 Rcpquapke"Qev0"8. "4242"Ex Parte. "Cwcej o gpv" \*oUrgetw o " Tgs wktg o gpvu" hqt" kpygmki gpv" Vtcurqtvcvkqp"U { uvg o uo+ "cv"4/6" \*tghgtgpekpi" Ect"4"Ect"uuvf { += "Xqmmu y ci gp"Eq o o gpvu" cv" ; \*52" o gicjgtv | "ku"pggfgf" hqt" xgjkeng/vq/xgjkeng"cpf" xgjkeng/vq/kphtcuvtwewwtg"uchgv { "cr rnekcvkqpu"vqcf { +0"

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

335" Rncvqqkpi"hwpevkqpu"tgncv g "vq" c"v { rg"qh"eqqrgtcvkg"cwvq o cvg f" ftkxkpi" hqt"eqppgevgf" xgjkengu. " i gpgtcm { "vtwemu. " vjcv"vtcxgn"vq i gvjgt"kp" c"eqqtkpcv g f" o c p p g t 0 " See"Eqpvkpgpvcn" Tgrn { "cv"380"

336" Xwnpgtcdng"tqcf" wugtu"XTWu+"kpenwfg" r g f g u v t k c p u . " d k e { e n k u v u . " o q v q t e { e n k u v u . " u e q q v g t " w u g t u . " c p f " t q c f " y q t m g t u 0 " See" KGGG"382; " Y qtmkpi" I tqwr"Eq o o gpvu"cv"8=" Sweneq o o "Eq o o gpvu"cv"50"

\*kpenwfkpi "Eqnngvkvxg"Rgtegrvkqp"Oguucigu<sup>337</sup>"cpf"Ocpgwxtg"Eqqtfkpcvkqp"Oguucigu<sup>338</sup>+. "y jkej"eqwnf" tgswktg" o qtg"urgetvw o "cpf"eqwnf"jgnr"gpdcng"hwvwtg"cwvppq o qwu"ftkxkpi"ugtxkegu<sup>339</sup>

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 rnkcevkkpu<sup>333</sup>:"Eqpvkpgpvcn"Cwvq o qvkvxg"U{uvg o u"\*Eqpvkpgpvcn+."vjg"KGGG"382;" Yqtmkpi" 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."cfxcepegf"ugtxkegu"\*kpenwfkpi"eqqrgtcvkvxg"cyctgpguu"ftkxkpi." o cpgwxtg" eqqt f kpcvkqp."cpf" rncvqppki +<sup>333</sup>;"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 .<sup>342</sup>"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"Kppqxcvkqp<sup>343</sup>"W0U0" FQV"eqpvpgfu"vjcv"cmn"97" o gicjgtv|"u j qwnf"dg"rtgugtxgf"htq"KVU<sup>344</sup>"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"nquv<sup>345</sup>"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 jv"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/

<sup>337</sup>"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"ceekfgpv"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"gswwrgf"y tqpi"y c{"xgjkengu"Eqpvkpgpvcn" Tgrn{ "cv"380"

<sup>338</sup>"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/qt f kpc{ "jki j y c{"ukvckvku" Gzc o rng"cr rnkcevkkpu" o c{"kpenwfg" eqqrgtcvkvxg"ncpg"ejcpi g"qrgpkpi"i cru"htq"xgjkengu"vq"uchgn{"ejcpi g"ncpgu="eqqrgtcvkvxg"qxgtvcmkpi"\*qrgpkpi"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 rtqxf"eqqrgtcvkvxg"ftkxkpi"cr rnkcevkkpu"\*g0i0."k o rtqxf"kpvtugevkqp" o qxg o gpi"cuukw"cpf" k o rtqxf"nghv"wtv"cuukw"Idl"

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

<sup>33</sup>"Ect"4"Ect"Eq o gpvu"cv"40""Ect"4"Ect"rtqxfkfg"ce"ejcvt"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"

<sup>33</sup>"Eqpvkpgpvcn" Tgrn{"cv"37/39="Ngwgt"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="Ngwgt"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="Ngwgt"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 o gpvu"cv"6/9="KGGG"382;" Yqtmkpi" I tqwr"Eq o 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 " uwv{ += "W0U0"Vgejpkcn"Cfxkuqt{" I tqwr"Eq o o gpvu"cv"7/32"uc o g+0"

<sup>342</sup>"71 CC"Eq o o gpvu"cv"44/53"52" o gicjgtv|"y qwnf"uwr rqtv"öE/X4Z" Fktgevö"qrgtcvkvkpu"dwv"pqv"öc fxcpegfö"E/ X4Z+=see also Rcpucqpk"Qev0"8."4242"Ex Parte."Cwcej o gpvu"öU"urgetvw o "Tgswktg o gpvu"htq"Kpvgmki gpi" Vtcurqvcvkqp"U{uvg o uö+"cv"4/6"\*tghgtgpekp i"71 CC"cpcn{uku+0"

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

<sup>344</sup>"See generally W0U0" FQV" Tgrn{0"

<sup>345</sup>"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"eqqrgetvcxgn{"\*cv"nq y"ncvgepe{"+vq"ko rtxqg"Xgjkewnc"uchgv{"c o qpi" o qtg"wgut0<sup>346m</sup>"Uq o g"KVU"  
rtqrqpgpvu"eqpvgpf"vjcv"nk o kvkpi"vjg"co qwpv"qh"cxckncdng"urgetw o "vq"52" o g i c j g t v | " o c { " g n k o k p c v g " q t "  
uk 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 <sup>347m</sup> " K p " c f f k v k q p . " v j g "  
Eq 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 . <sup>348m</sup> " v t c p u r q t v c 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 k q p . <sup>349m</sup> " r w d n k e " u c h g v { "  
g p v k v k g u . <sup>34:</sup> " c p f " q v j g t u <sup>34:</sup> " 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 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"rqvgpvkcn."hwwtg"KVU"cr rnkcevkqpu0" PEVC"pqvgu"vjcv"Ect"4"Ectou"qyp"uvvf{"kpfkcevgu"  
vjcv"52" o g i c j g t v | " k u " u w h h k e k g p v " h q t " D u k e " U c h g v { " O g u u c i g u " \* y j k e j " t g s w k t g u " p q " o q t g " v j c p " 3 2 " o g i c j g t v | + "  
c p f " x c t k q w u " x g j k e n g / v q / k p h t c u v t w e v w t g " \* X 4 K + " c r r n k e c v k q p u . " k p e n w f k p i " u k i p c n " r j c u g " c p f " v k o k p i . " t q c f l n c p g "  
v r q r n q i { " o c p g w x g t . " k p / x g j k e n g " k p h q t o c v k q p " c p f " q v j g t " u k o k n c t " o g u u c i g u . " c u " y g m " c u " v j g " R g t u q p c n " U c h g v { "  
O g u u c i g " \* y j k e j " t g s w k t g " q p n { " 4 2 " o g i c j g t v | + } <sup>352m</sup> " P E V C " h w t v j g t " p q v g u " v j c v " g x g p " c h v g t " 4 2 " { g c t u " v j g t g " c t g "  
e w t t g p v n { " p q " e q o o g t e k c m { / o c t m g v g f " x g j k e n g u " v j c v " k p e n w f g u " F U T E " t c f k q u " v q " g x g p " r t q x k f g " K V U " d u k e " u c h g v { "  
u g t x k e g u <sup>353m</sup> " P E V C " e q p v g p f u " v j c v " v j g " E q o o k u u k q p " u j q w n f " p q v " e q p u k f g t " v j g " r q v g p v k c n " u r g e t w o " p g g f u " q h "  
h w w t g " x g t u k q p u " q h " K V U " v g e j p g n q i k g u " d g e c w u g " v j g u g " q v j g t " r q v g p v k c n " h w w t g " X 4 Z " c r r n k e c v k q p u " c t g " o u r g e w n c v k x g "  
f g x g n q r o g p v u " o " v j c v " o c { " q t " o c { " p q v " f g x g n q r o <sup>354m</sup> " 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 "  
g t t q t " o c f g " k p " 3 ; ; ; " y j k e j " t g u w n v g f " k p " w p f g t w u g " q h " x c n w c d n g " o k f / d c p f " y j k n g " c y c k v k p i " t g u g t e j " c p f "  
f g x g n q r o g p v <sup>355m</sup> " 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 "  
u r g e t w o " t g u g t x c v k q p " y k v j q w n " 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 w " d g " y k v j j g n f "  
h t q 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 "

<sup>346m</sup> See, e.g., "W0U0" FQV" Tgrn {"cv"38."4;/54="KGGG"382;" Y qtmkpi" I tqwr"Eq o o gpvu"cv"="Rcpcaqpk"Eq o o gpvu"cv"360"

<sup>347m</sup> See, e.g., "Ect"4"Ect"Eq o o gpvu"cv"6="Eqpvkpgpvcn"Lwpg";. "4242" Ex Parte cv"3."60"

<sup>348m</sup> See, e.g., "I O"Eq o o gpvu"cv"/; ; ; " \* r q v g p v k c 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 u . " e q q r g t c v k x g "  
f t l x k p i . " r n c v q p k p i . " c p f " c f x c p e g f " f t l x k p i " y k v j " u g p u q t u " y k n n " d g " n q u w " q t " n k o k v g f + " J q p f c " E q o o g p v u " c v " 3 2 " L c i w c t " N c p f "  
T q x g t " E q o o g p v u " c v " 5 " P k u u c p " E q o o g p v u " c v " 3 " X q n m u y c i g p " E q o o g p v u " c v " 6 / 7 " X q n x q " E q o o g p v u " c v " 4 " D O Y "  
E q o o g p v u " c v " 5 " H k c v / E j t { u n g t " E q o o g p v u " c v " 5 " H q t f " T g r n { " c v " 8 / 9 " V q { q v c " T g r n { " c v " 7 / ; " C w w q v c n m u " E q o o g p v u " c v " 4 " "  
G w t q r g c p " C w w q 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 "

<sup>349m</sup> 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 { "  
W u g t u " C m k c p e g " E q o o g p v u " c v " 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 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 w q o q v k x g " U c h g v { "  
E q w p e k n " E q o o g p v u " c v " 3 / 4 " C C U J V Q " E q o o g p v u " c v " 5 " E c n k h q t p k c " F Q V " E q o o g p v u " c v " 5 " E k v { " q h " P g y " [ q t m " E q o o g p v u "  
c v " 7 / 8 " E q q t c f q " F Q V " E q o o g p v u " c v " 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 " "  
R g p p u { 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 "

<sup>34:</sup> See, e.g., "Pcvkqpcn"Rwdnke"Uchgv{"Vngneq o o wpkcevkqpu"Eqwpekn"Eq o o gpvu"cv"3="Pcvkqpcn"Ujgtkhhou"Cuuqekcvkqp"  
Eq o o gpvu"cv"30"

<sup>34:</sup> See, e.g., "Eqpuw o gt" Tgrqtu"Eq o o gpvu"cv"3="NI" Gngvtqpkue"Eq o o gpvu"cv"3="Swcneq o o "Eq o o gpvu"cv"; /38=" "  
Dquej"Eq o o gpvu"cv"7="PZR"Ug o keqpfwevqtu"Eq o o gpvu"cv"3="CV ( V"Eq o o gpvu"cv"3="V/Oqdkng"Eq o o gpvu"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 "

<sup>352m</sup> PEVC" Tgrn {"cv"46" \*ekvkpi" Ect"4"Ect"Rqukvkqp"Rcrgrt"q" Tqcf"Uchgv{"cpf" Tqcf" Ghhkkgpe {"Urgewt o " Pggfu"kp"vjg" "  
70; " I J | " hqt" E/KVU"cpf"Eqqrgetvcxg" Cwwq o cvgf" Ftkxkpi" \*Hgd0"4:0"4242++0"

<sup>353m</sup> PEVC" Tgrn {"cv"480" Y g"pqvg"vjcv" I Opu"Ec fknnce" dtcpf" kpenwfgf" qpg" o qfgn" \*EVU"ugfcp+"vjcv"kpucvncngf" FUTE"qp/ "  
dqctf"wpkvu"htq o"4239"vj tqwi j" o kf/423; " y jgp"uwej" kpucvncvkvkqpu" y gtg" fkueqpvkpwgf"0" See "  
jwvrkll y y 0h jxgxt i g 0eq o 14239151; 136:8; 3321ecfknnce/evu/ugfcp/x4x/eq o o wpkcevkqp/fute/i o = "  
jwvr<11ec fknnceuqekv { leq o 1423: 1341261ecfknnce/ev8/vq/dg/ fkueqpvkpwgf /kp/ o kf/ "  
423:1%<g<vgz?Ecfknnce ' 42EV8 ' 42Vq ' 42Dg ' 42Fkueqpvkpwgf ' 42kp ' 42Okf/ "  
423:0 ' 42kv ' G4 ' :2 ' :; .u.vjg ' 42EV8 ' 42dgkpi ' 42c ' 42ecuvcnw { ' 42qh ' 42vjg ' 42 o qxg0"

<sup>354m</sup> PEVC" Tgrn {"cv"46/490"

<sup>355m</sup> 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 c 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 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 c 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 c v k q p o" V j w u. " y g" d g n k 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 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 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 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 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 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 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 v 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 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 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"qrgtcvkqpu<sup>363</sup>"

6;0A Yg"cfqrv"qwt"rtqrqucn"vq"tgswtg"gzkuvki"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 "vjg"ghhgevkg"fcvg"qh" vjku"Hktuv" Tgrqtv"cpf" Qtfgt"vq"egcug"qrgtcvki"kp"vjku"rqtvkqp"qh"vjg"dcpf0"Uq o g"eq o o gpvgtu"uwr rqtv" tgswtkpi"vjg"KVU"qrgtcvkqpu"kp"vjg"nq ygt"67" o g i c j g t v | "vq"vtpukvqp"qvw"qh"vjku"urgetw o "ykvj"kp"ukz" o qpvju"qh"qwt" fgekukqp.<sup>364</sup> y jkng"qvjgtu"uvcvg"vjcv"ukz" o qpvju"ku"pqv"uwkhkekgpv"dwv"ppg" { gct"yqwnf"uwkhkeg<sup>365</sup> Vcmkpi"vjg"tgeqtf"kpqv"ceeqwv." y g"dgngxg"rtqxfkpi"KVU"nkegpuggu"ppg" { gct"htq o "vjg"ghhgevkg"fcvg"qh" vjku"Hktuv" Tgrqtv"cpf" Qtfgt"rtqxfkg"uwhhkekgpv"cpf"tgcupcdng" c o qwpv"qh"vk o g" hqt"vjg o "vq"vcmg"vjg" pgeguucti"uvgru"vq"vtpukvqp"htq o "vjg"nq ygt"67" o g i c j g t v | "qh"urgetw o "cpf"vq"gp i c i g"kp"vjg"uc o g"v { rgu"qh" qrgtcvkqpu"kp"vjg"wr rgt"52" o g i c j g t v | "vjcv"vjg" { "ygtg"eqpfwekpi"kp"vjg"dcpf0"Vjwu."qwt"cevqpv"vq"fc" { "yknm" ceeq o o qfcvg"vjg"pggfu"qh"vjgug"kpew o dgpv"nkegpuggu"cpf"rtqxfkg"uwhhkekgpv"vk o g"vq"eqpuqnf"cvg"vjgkt" qrgtcvkqpu"vq"vjg"wr rgt"rqtvkqp"qh"vjg"dcpf." y jkng"gpdcnkpi"wpnkegpugf"u { uvg o "qrgtcvqtu"vq"dgi"kp"vcmkpi" c f x c p v c i g"qh"vjg"W/PKK/6"dcpf" ykvj"kp f q q t / q p n { " f g r n q { o g p v u " c u " u q p p " c u " r q u u k d n g 0

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<sup>363</sup> 5.9 GHz NPRM."56"HEE"Tef"cv"34839."rtct0"560

<sup>364</sup> See PEVC"Eq o o gpvu"cv"66="V/Oqdkg"Eq o o gpvu"cv"4."p070"

<sup>365</sup> See, e.g., Ngwgt"htq"Ueqv" Fgnceqwtv."eqwpugn"htq" Cmkcpeg"htq" Cwvq o qvkg" Kppqxcvqp"vq" Octngpg" J0" Fqtvej." Ugetgvct { "HEE."GV" Fqemgv" Pq0"3; /35: .cv"5"\*hkgf" Pqx0"32."4242+\*uvcvki"vjcv"ppg" { gct"yqwnf"rtqxfkg"uwkhkekgpv" vk o g" hqt"kpew o dgpv"vq"vtpukvqp"qvw"qh"vjg"nq ygt"67" o g i c j g t v | +=Q o pkCkt"Eqpuqtvw o ."Kpel"\*Q o pkCkt+"Eq o o gpvu" cv"330"

<sup>366</sup> 5.9 GHz NPRM."56"HEE"Tef"cv"3483: ."rtct0"580"

<sup>367</sup> See Pcvkqpn" Jki j y c { " Vtchhke"Uchgv { " C f o k p l u v t c v k p " \* P J V U 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 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 v 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 : 7 6 . " 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

<sup>368</sup> Cu"rgt"69"W0U0E0E"538." y g"rtqxfkg"htq" c"52/fc { "rtqvgv"rgtkqf"dgthqg"vjgug" 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"

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Telecommunications Bureau and Public Safety and Homeland Security Bureau Announce Temporary Freeze on the
Acceptance and Processing of Part 90 Applications for Certain 5850-5925 MHz (5.9 GHz Band) Spectrum."GV"
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cu"cp{"KVU"qrgrtcvqpu"kp"vjg"dcpf"qp"qt"chvgt"vjcv"fcvg"yqwnf"xlqncvg"vjg"Eq"o"o"kuukqpou"twngu"cpf"vjg"vgt"ou"
qh"vjgkt"oqfkhkgf"nkegpugul<sup>373</sup>"

770A Gzkuvki"KVU"nkegpuggu"vjcv"ewttgpn{"qrgrtcvg"qp"ejcppgnu"kp"vjg"70: 72/70: ; 7" I J |"rqtvkqp"
qh"vjg"70: ; I J |"dcpf"oc{"oqxg"cp{"qh"vjgkt"FU TE/dcugf"qrgrtcvqpu"vq"ejcppgnu"kp"vjg"70: ; 7/70; 47" I J |"
rqtvkqp"qh"vjg"dcpf"cv"cp{"vk"og"dghqtg"vjg"ctg"tgswtgf"vq"egcug"qrgrtcvqpu"kp"vjg"70: 72/70: ; 7" I J |"
rqtvkqp"0"Hwtvjgt"oqtg."yg"cpvkekr"cvg"vjcv"uq"og"KVU"nkegpuggu"oc{"ykvj"vq"qrgrtcvg"E/X4Z/dcugf"KVU"kp"vjg"
70: ; 7/70; 47" I J |"KVU"dcpf."cpf"pqvg"vjcv"uq"og"cwvq"oqvkxg."vgejpnqi{"cpf"vgngeq"o"wpkecvqpu"
eq"orcpkgu"tgswguv"vjcv"ygrt"okv"E/X4Z"qrgrtcvqpu"kp"vjg"70: ; 7/70; 47" I J |"dcpf"cu"uqpp"cu"rquukdng<sup>374</sup>"
Ceeqtfkpin{"y"y"y"km"rgt"okv"cp{"gzkuvki"qt"hwwtg"rctv"; 2"KVU"nkegpugg"vq"qrgrtcvg"E/X4Z/dcugf"tqcfukfg"
wpkvu"\*TUWu"kp"vjg"70: ; 7/70; 47" I J |"dcpf"ykvj"kp"kvu"igqi"tcr"jke"nkegpukpi"ctgcu"d{"tgswguvkpi"cpf"
qdvckpki"c"yckxgt"qh"vjg"Eq"o"o"kuukqpou"twngu."uwdlgev"vq"urgekkg"eqpfkvkqpu<sup>375</sup>"Gcej"uwej"KVU"nkegpugg"
qdvckpki"c"yckxgt"yqwnf"dg"tgswtgf"vq"eqqtfkpcvg"kvu"E/X4Z/dcugf"tqcfukfg"wpkvu"\*TUWu"qrgrtcvqpu"ykvj"
cp{"gzkuvki"nkegpugg"ykvj"kp"vjcv"uc"og"igqi"tcr"jke"ctgc"vq"gpuwgt"vjcv"pq"E/X4Z/dcugf"tqcfukfg"wpkvu"
yqwnf"kpvgthgt"ykvj"cp{"FU TE/dcugf"tqcfukfg"wpkvu"vjcv"qrgrtcvg"kp"vjg"70: ; 7/70; 47" I J |"dcpf<sup>376</sup>"Wpfgt"
vjku"yckxgt"cr"rtqej."yg"cnuq"yqwnf"eqpfkvkqpu"E/X4Z"qrgrtcvqpu"qp"eq"orn"kp"ykvj"urgekkgf"vgejpkcn"
twngu"80i0."rqygt"cp"qvw/qh"dcpf"g"o"kuukqp"nk"o"kvu"eqpukuvgpv"ykvj"ewttgpn"FU TE/dcugf"twngu"cp"vjg"E/
X4Z"qrgrtcvqpu<sup>377</sup>"Yg"ftggev"vjg"Yktgnguu"Vnggeq"o"wpkecvqpu"Dwtgcw"cpf"vjg"Rwdnke"Uchgv{"cpf"
Jq"ogncpf"Ugewtkv{"Dwtgcw"vq"kuuwg"c"rwdnke"pqvkeg"ykvj"kp"52"fc{"u"qh"vjg"ghgvekvxg"fcvg"qh"vjku"Trqtv"cpf"
Qtfgt"vq"guvcdnkuj"cpf"rtqxfg"htvjgt"enctkv{"qp"cu"utgc"onkpgf"yckxgt"rtqeguu"htq"rtqxfkpi"KVU"nkegpuggu"
cwvjqtkv{"vq"qrgrtcvg"tqcfukfg"wpkvu"ykvj"E/X4Z/dcugf"vgejpnqi{"kp"vjg"70: ; 7/70; 47" I J |"dcpf"kp"vjg"
pgct"vgt"o0"

<sup>373</sup>Vjku"kpenwfgu"rqtvcng"TUWu"pqv"uwdlgev"vq"tgikuvtkvqpu"tgswtg"ogpvu0"

<sup>374</sup>See, e.g., "Ngvgt"htq"o"Okvej"Decpyqn."Ejkgk" Iqxgtp"ogpvt"tgncvqpu"Eqwpugn."Hqt"Oqvqt"Eq"orcp{"Uvgrjgp"
Tqdg."X0R0."Hkcv"Ej"t{ungt"Cwvq"oqdkngu"W0U0"NNE."gv"cn0"vq"Clkv"Rck."Ejckto"cp."HEE."GV"fqemgv"Pq0"3 ; /35: ".cv"3/4"
\*hnkgf"Pqx0"7."4242+\*ngvgt"hnkgf"d{"tgr"tugpvcvkgu"qh"Hqt."Hkcv"Ej"t{ungt."Fck"ongt."Cr"rnkgf"kpht"o"cvkqp."V/Oqdkng."
Pqmkc."Swneq"o"o+="Ngvgt"htq"o"Lqjp"Y0"Mw|kp."Xkleg"Rtgukfg"p"cpf"tg"i"wnvqt{"Eqwpugn."Swneq"o"o"vq"Ocnpgg"J0"
Fqtvej."Ugetgvct{"HEE."GV"fqemgv"Pq0"3 ; /35: ".cv"3\*hnkgf"Pqx0"7."4242+\*Swneq"o"o"Pqx0"70"4242'Ex Parte"0"Yg"
pqvg"vjcv"Swneq"o"o"cnuq"tgswguv"vjcv"y"itcp"vjg"423: "7 ICC"tgswguv"htq"yckxgt"vq"cmqy"E/X4Z"fgnrq"ogpvu"kp"
vjg"70; 27/70; 47" I J |"rqtvkqp"qh"vjg"70: ; I J |"dcpf0"See, e.g., "Swneq"o"o"Pqx0"7."4242'Ex Parte"cv"3\*tghgtpekipi"vjg"
7 ICC"Rgvkqpu"htq"Yckxgt"\*hnkgf"Pqx0"43."423: +0"

<sup>375</sup>69"EHT"È"30; 47\*d+\*5+\*itcpv"qh"c"yckxgt"tgswguv"tgswtg"cu"j"q"kp"i"vjcv"ovjg"wpfgtn{kpi"rwrtrug"qh"vjg"twng\*u"
yqwnf"pqv"dg"ugtxgf"qt"yqwnf"dg"htwvvcvgf"d{"cr"rnkecvqpu"vq"vjg"kpucpv"ecug."cpf"vjcv"c"i"tcpv"qh"vjg"tgswguv"
yckxgt"yqwnf"dg"kp"vjg"rwdnke"kpvtgtguv="qt"kp"xlgy"qh"wpkswg"qt"wpwuwn"heevwn"ektew"o"uvcpegu"qh"vjg"kpucpv"ecug."
cr"rnkecvqpu"qh"vjg"twng\*u"yqwnf"dg"kp"gswkvcng."wpfwn{"dwtfgpuq"og"qt"eqvtct{"vq"vjg"rwdnke"kpvtgtguv."qt"vjg"cr"rnkecv"
jcu"pq"tgcupcdng"cnvgtpcvkg0+0"

<sup>376</sup>KVU"nkegpuggu"vjcv"qdvckp"c"yckxgt"o"uwv"eqqtfkpcvg"vjgkt"E/X4Z/dcugf"tqcfukfg"wpkvu"qrgrtcvqpu"vq"gpuwgt"vjcv"
vjqug"tqcfukfg"wpkvu"fq"pqv"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"c"tguwnv"qh"vjgkt"vcpukvqpkpi"vq"vjku"dcpf"rtkq"vq"vjg"qpg" {gct"uwpugv"fcvg"htq"
qrgrtcvqpu"kp"vjg"70: 72/70: ; 7" I J |"dcpf"qt"hmqy"kp"i"vjg"vcpukvqp"fcgfnkpg0"

<sup>377</sup>kp"vjg"htvjgt"Pqvkeg."yg"uggm"eq"o"ogpv"qp"vjg"hkpcn"twngu"htq"E/X4Z"qrgrtcvqpu"kp"vjg"70: ; 7/70; 47" I J |"dcpf0"



780A Y g"cnug"y knn"vcmg"cevqkp"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 ckgxtu"vq" qdvcp"gswr o gpv"egtvkhecevqkp"qh"E/X4Z/dcugf"qp/dqctf"wpkvu"cu"y gmn"cu"y ckgxtu"vq"rgt o kv"uwej"fgxkeg" qrgtcvkqp"rtkt"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."kpuvcnncvqkp."cpf"wug"qh"E/X4Z/dcugf"qp/dqctf"wpkvu"kp" cfxcp"eg"qh"hkpcn"twngu"vq"fkuewu"vjgkt"gswr 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"cevqkp"vq"gpdcng"vjg"gzrgf"kvkqwu"tqm/qwv"qh"vjgug"fgxkegu"qp"xgjkengu" kp"o"o cpgt"vjg"cu"eqpukv"y kvj"gzkvkpi"vgejpkcni"twngu"cpf"vjg"y knn"pq"ecwug"jct o hwn"kpvtgthtgep"vq" FUTE/dcugf"qrgtcvkqpu"vjg"jcxg"pqv{"gv"vcpukvqpgf"vq"E/X4Z"qrgtcvkqpu"378"Qwt"cevqkp"jgtg"rtqkfg" pggf"egtvckpv{"vjg"y knn"gpdcng"cu"o qvjt"cpf"o qtg"tcrkf"fgxgnqr o gpv"cpf"fgnrq o gpv"qh"E/X4Z/ dcugf"KVU"qrgtcvkqpu"kp"vjg"hwvwtg"0

790A Y g"pqv"vjg"KVU"Co gktec"uwi iguv"vjg"Eq o o kuukqp"eqpukfgt"ceeftkpi"KVU" nkegpuggu"tgcupcdng"eq o rgpucvq"tgncv"vq"qwt"fgukuk"vq"tgsukt"tgnqecvq"qh"KVU"qvw"qh"vjg"hg ygt"67" o gicjgtv|"qh"urgetwo."cnvjqwi j"kv"fkf"pqv"rtqrug"cu"urgekhe"o gejcuko o "hqt"uwej"hwfkipi"379"Vjg" Cmkcpeg"htq"Cwvq o qvkg"Kppqxcvq"nkmg y kug"cumg"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"vcpukvqkpi"qvw"qh"vjg"dcpf"377"Y jkng"uq o g"o gejcuko o "hqt"hwfkipi"vjg"vcpukvq"o k i jv"dg" cr rtrtkcvg."y g"fgenkpg"vq"cfqr"cu"urgekhe"o gejcuko o "kp"vjku"Hktuv"Trgtv"cpf"Qtfgt"dgecwug"y g"fkf"pqv" rtqrug"cu"eq o rgpucvq"o gejcuko o "kp"vjg"5.9 GHz NPRM."cpf"vjg"tghq"jcxg"pqv"rtqkfg"rctvku"cp" cfxgswcv"qr rqtvpkv{"vq"eq o o gpv"qp"uwej"cu"o gejcuko o "kp"cf"kvkq."i kxgp"vjg"nk o kvg"fgnrq o gpv"cpf" vjg"hcev"vjg"nkegpuggu"ctg"v rkecn{"iqxgtp o gpv"gpvkvku."y g"gzrgv"vjg"vjg"y knn"dg"nkvnng"rtcevkcn" fkhkewv{"qt"fkutwrvkq"ecwug"d{"fgnc"kp"vjg"tguqnwvq"qh"vjku"kuuwg"vq"vjg"Hwtvjt"pqvkeg"0

B. Unlicensed Operations in the 5.850-5.895 GHz Band

7:0A Cu"fkuewu"cdxg."y g"ctg"fgukipcvkpi"67"o gicjgtv|"kp"vjg"70:72/70:;7" I J |"rqtvkqp"qh" vjg"70;" I J |"dcpf"htq"wpnkegpugf"qrgtcvkqpu"Vjku"67"o gicjgtv|"dcpf"y knn"gzrcpf"vjg"wpnkegpugf" gequ"uv"o d{"rtqkfkpi"cf"kvkqpcn"urgetwo"o cflcegp"vq"vjg"wr rgt"gf ig"qh"vjg"W/PKK/5"dcpf"htq" wpnkegpugf"fgxkegu"377;"

7:0A Dgnqy."y g"ugv"qvw"vjg"vgejpkcni"cpf"qrgtcvkqpcn"twngu"htq"wpnkegpugf"qrgtcvkqpu"kp"vjg" 70:72/70:;7" I J |"dcpf"cu"y gmn"cu"twngu"htq"rtqgvev"kpew o dgpvu"kp"vjg"dcpf"0"Chvt"tgxky"qh"vjg" rgtvkpgpv"vgejpkcni"cpf"ng i cn"kuuwgu"dghtg"wu"cp"cp"gzc o kpcvq"qh"vjg"tgeqtf."y g"cfqr"cu"uvc"gf" cr rrtqej"vq"ghhgevcv"vjg"dcpf/tgrwtrkukpi"cevqpu"vcmgp"jgtgkpi"Vjg"cr rrtqej"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"eqpukfgtcvq"qh"vjg"pggf"vq"rtqvev"kpew o dgpv"qrgtcvkqpu"kp"vjku"dcpf"0" Urgekhecn{"cv"vjku"vk o g"y g"y knn"rgt o kv"qpn{"kpfqqt"wpnkegpugf"qrgtcvkqpu"vq"qrgtcv"cetqu"vjg"gpvktg" 70:72/70:;7" I J |"rqtvkqp"qh"vjg"dcpf"0"Y g"nk o kv"wpnkegpugf"vug"vq"kpqq"qrgtcvkqpu"kp"tgeq"ipkvkqp"qh"vjg" rqvvpkcn"vjg"KVU"nkegpuggu"o c{"ewttgpn{"dg"qrgtcv"kp"rqtvkqpu"qh"vjg"70:72/70:;7" I J |"dcpf"kp" rctvkewnc"igqi"trjke"ctgcu."cu"y gmn"cu"vjg"pggf"vq"rtqvev"hgftcn"kpew o dgpvu"qrgtcv"kp"rctvkewnc" igqi"trjke"lppgu"kp"vjg"70:72/70:;7" I J |"dcpf"0"Y g"fgenkpg"vq"cnm"y"hwmm/rqygt"wpnkegpugf"qvwfqq"t

378\* Y jkng"y g"gzrgv"vjg"ewttgpn"FUTE/dcugf"KVU"nkegpuggu"y knn"uggm"vq"vcpukvq"vq"E/X4Z/dcugf"qrgtcvkqpu" gzrgf"kvkqwu"i."uwej"nkegpuggu"ctg"rgt o kvg"vq"eqpukvq"vq"qrgtcv"kp"vjg"70:72/70:;7" I J |"dcpf"htq"wr"vq"qpg"lget" chvgt"vjg"ghhgevcv"fcvg"qh"vjg"Trgtv"cpf"Qtfgt."cpf"vq"qrgtcv"kp"vjg"70:;7/70;47" I J |"dcpf"wr"wpkn"vjg"fcvg"vjg" vjg{"y knn"dg"tgsuktg"vq"vcpukvq"vq"E/X4Z/dcugf"qrgtcvkqpu."y jkej"y knn"dg"guvcdnkjg"kp"vjg"Ugeqpf"Trgtv"cpf" Qtfgt"0

379"KVU"Co gktec"Trn{"cv"66"0

37:"Cmkcpeg"htq"Cwvq o qvkg"Kppqxcvq"pqv"32."4242"Ex Parte"cv"6/70"0

37:"Kp"vjku"dcpf."wvntc/ykfgdcpf"fgxkegu"jcxg"dgpp"rgt o kvg"vq"qrgtcv."dwn"cv"xgt{"nqy"rqygt"ngxgnu"ugg"69"EHT" rctv"37."uwrctv"H."cpf"wpnkegpugf"kp"i gpgtcn"jcu"dgpp"cwvjqt l g"vq"qrgtcv."dwn"cnug"cv"nqy"rqygt"ngxgnu"klg"0."vjg" nk o kvu"kp"69"EHT"E"37042;+0"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"cnug"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" tguvkevgf"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"tguvkevki"W/PKK/6"qrgtcvkqpu"vq"kpfaqqt/qpn{"wug"y qwnf"cnug" 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"cnug"y hqt" o qtg"hgzkdnq"wug"qh"vjg" dcpf"cpf" gpcdnq"tqdwuv"y kfgdcpf"qrgtcvkqpu"kpfaqtu"383" Rtqrqpgpvu"qh"wpnkegpugf"qrgtcvkqpu"uw i i guv"vjcv"vjg"Eq o o kuukqp"ujqwnf"eqpukfgt"ugrctcvg"twngu"htq" kpfaqqt"cpf"qwwfqqt"W/PKK/6"depf"qrgtcvkqpu."tcvjgt"vjcp"cfqrvkpi"kpfaqqt/qpn{"wug"tguvkevkqpu"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" 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"o"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" hkgzf"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 gpvki"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." Dgpvqp"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 {wug o"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" Gphtqteg o gpv"Dwtgcw"Qhkhqeg"qh"vjg" Hkgnf" Fktgevt"\*tgn0"Lwn0"49." 4238+0"

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5.9 GHz NPRM. "y g"rtqrqguf"vq"cfqrv"vjg"uc o g"vgejpkecn"twngu"\*g0i0."tcfkcvgf"rqygt."rqygt"urgetvcn"fgpukv{"gve0"htq"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"uwo d 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"tguurgev"vq"hgfgtgn"EqF"tcfcctu"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"tcfcctu"qrgtcvkqpu"kp"vjg"70;" I J | "dcpf038:"PEVC"uvvq"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"hgfgtgn"kpew o dgpvu"htq" {gctu"y kvj qvw"cp{"urgekcnlgf"htgswgpe{"cxqkfcpeg"vgejpkswgu."cpf"kp"i gpgtgn"ujctkpi"jcu"dgpp"uueeguuhwn038:"PVKC"eqpfwevgf"cpnc{ugu"vq"cuuguu"vjg"rqvqpvkcn"qh"W/PKK/6"fgxkegu"vq"ecwug"jct o hwn"kpvgthgtgpeg"vq"EqF"tcfcctu"qrgtcvkqpu0"Vjcv"cpnc{uku"eqpenwfgu"vjcv"55"fd o l42"O J | "gswxcngpv"kuqvtrkecn{"tcfkcvgf"rqygt"\*GKTR+"nk o kv"htq"kp fqqt"W/PKK/6"fgxkegu"ku"wpnkmgf"vq"ecwug"jct o hwn"kpvgthgtgpeg"vq"hgfgtgn"tcfcctu"qrgtcvkqpu"kp"vjg"70;" I J | "dcpf0392"Yg"uwr rqtv"PVKC0u"tgeq o o gpf g f"rqygt"nk o kv"cu"y g"dgngxg"kv"rtqrqgn{"dncpegu"hgfgtgn"tcfcctu"rtqvgevkqp"ngxgnu"y kvj"gpwtkpi"vjcv"W/PKK/6"fgxkegu"ecp"qrgtcvg"y kvj"gpw i j"rqygt"vq"rtqxfkfg"tgnkcdng"eqppgevkqpu"vq"vjg"Co g tkecp"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"htq"gzc o rng."qpg"fkuvkpevkqp"ku"y kvj"tguurgev"vq"vjg"rtqdcdknkv{"vjcv"Yk/Hk"ejcppgn"ku"qrgtcvkpi"kp"vjg"W/PKK/6"dcpf0"kp"i gpgtgn."v jku"rtqdcdknkv{"fgrgpfu"qp"ejcppgn"dcpf ykfvj."vjg"vqvcn"pw o dgt"qh"cxkncdng"ejcppgn"cetquu"vjg"wpnkpegpugf"dcpfu"y kvj"vjg"eqtguqp"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"kpqtrqtcvgu"cu"ejcppgn"uecnkpi"rctc o gvgt"vjcv"dtqcfn{"tghngevu"vjg"pw o dgt"qh"ghhgevxxg"wuugu"kp"vjg"W/PKK/6"dcpf"cpf"vjwu"eqpukfgtu"vjku"rtqdcdknkv{"wukpi"cu"kip ing"rctc o gvgt0393"Vjku"cpf"qvjgt"xct{kpi"cuuw o rvkqpu"ecp"ngcf"vq"uq o g"fkhhgtgpegu"kp"vjg"hkpcn"pw o g tkecn"tguwvnu0"Pxgvtvjnguu."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"rtqeggfkip"vjcv"guvcdnkujg f"vjg"W/PKK/5"dcpf."PVKC"fkf"pqv" o gpvkqp"tcfcctu"vtcenkpi"u{uvg o u"qrgtcvkqpu"cv"Ecrg"Ecpcxgtn0"Ugg"PVKC"Trgn{."Fqemg"Eq0";8/324."hknfg"Cwi0"38."3.;:8."Crrgpfkz"F"cv"7/70"Ugg"cnuq"PVKC"Eq o o gpv"kp"vjg"W/PKK/5"gzrcpukqp"rtqeggfkip."Fqemg"Eq0"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"Hgfgtgn"U{uvg o u"Qrgtcvkpi"kp"vjg"7:72/7;47"O J | "Dcpf"y kvj"Kpvgnki gpv"Vtcurqvcvkqpu"U{uvg o u"cpf"Wpnkpegpugf"Vcvkqpcn"Kphqt o cvkqp"Kphtcuvtwevtg"fgxkegu."Gf yctf"ftqegnc." [cp i"Ygpi."Okejcn" I jqt dcp|cf gj."Gfkuqp"Lwngcw."Pkemqcu"NeUqtvg."cv"390"

393" PVKC"cuuw o g f"uecnkpi"hcveqt"qh"47 ' 0" I kxgp"vjcv"vjgtg"ctg"ugxgp"382/ogicjgtv|"ejcppgn"cxkncdng"kp"vjg"8" I J | "dcpf"rnuu"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"wpnkpegpugf"wuugu"vjcv" o c{"qrgtcvg"kp"vjku"dcpf0"Gxgp"y kvj"vjku"cuuw o rvkqp."PVKC0u"cpnc{uku"tguwvnu"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"wpnkpegpugf"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 knm"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 m " 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 " 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 m " 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 m " 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 m " 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 m " 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 m " 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 m " 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 m " 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 m " 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 " o 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 " o 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+."jwrucllfqeulheel0ixl0rwdnkclwcej 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"\*tgswktpi"vjcv"ceeguu"rqkpvu"pqv"dg"ygcvjgt"tgukucpv." jcxg"kpvgitcvgf"cpvgppcu"cpf"rtqjkdv"vjg"ecrcdknv {"qh"eqppgevkpi"qvjgt"cpvgppcu"vq"vjg"fgxkegu."cpf"rtqjkdv" qrgtcvkp"qp"dcwgt {"rqtygt+0"

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

39: "Yg"enctkh {"vjcv"cpvgppcu"nqecvgf"qwwkf"qh"cp"gs wkr o gpv0" gpenquwtg."dww"y jkej"ctg"rgt o cpgpwm {"cvcejgf"vq"vjg" fgxkeg"\*g0i0"eqpuw o gt"Yk/Hk"tqwvgtu"ykvj" o wnw/cttc {"cpvgppcu+"ctg"eqpukfgtgf"cu"jcxkpi"0kpvgi tcvgf0"cpvgppcu0"

qrgrtcvkqp"vq"kpfaqqt"uug"qpn{06"" Y g" y knn"cnuq"tgswtkt"vjcv"vjku"uvcvg o gpv"dg"rncegf"kp"vjg"fgxkegou"uugt" o cpwcn0""Vjku"uvcvg o gpv."cnqpi" y kvj"gzkuwki"Eq o o kuukqp"tgswtkt o gpvu"htq"rctv"37"gswr o gpv.<sup>39</sup>:" y knn" kphqt o "eqpuw o gtu"qh"vjg"cr rrtqrktcvg"uug<sup>3:2</sup>"" Y g"hkpf"vjcv"vjgug"tgswtkt o gpvu" y knn" o cmg"qvwfqqt"qrgrtcvkqpu" k o rrtceveken"cpf"wpuwkvcndg0"

890A Eqpukuvgpv" y kvj"qwt"tgegpv"cevqpp"kp"vjg"6 GHz Report and Order." y g"cfqr"v"cp"gzegrvkqp" vq"ceeg o o qfcvg"fgxkegu"uwej"cu" Y k/Hk"gzvpgfgtu"cpf" o guj"pgvy qtmkpi"gswr o gpv"kpvgpfgf"vq" y qtm"kp" eqplwpevkqp" y kvj"cp"kpfaqqt"ceeguu"rqkpv"cpf"ujctg"vjg"uc o g"rtqrc icvkqp"rcvj"cpf"vjwu"vjg"uc o g"rqygt" tgswtkt o gpvu<sup>3:3</sup>"" Y g" y knn"rgt o kv"uwej"fgxkegu"vq"qrgrtcvg"cv"vjg"uc o g"rqygt"ngxgnu"cu"cp"kpfaqqt"ceeguu" rdkpv"rtqkxfgf"vjcv"vjg{"eq o rn{" y kvj"cmn"vjg"tgswtkt o gpvu" y g"ugv"qvw"htq"vjgug"fgxkegu"\*k0g0."vjg"fgxkeg" ecppqv"dg" y gcvjgt"tgukuvcpv." o wuv"jcxg"cp"kpvg i tcvgf"cpvgppc"cpf"ecppqv"jcxg"ecrcdtkv{"qh"eqppgevkpi" qvjgt"cpvgppcu."ecppqv"dg"ecrcdng"qh"qrgrtcvkpi"qp"dcvgt{"rqygt."cpf" o wuv"kpenwfg"cn"cdng"tgi ctkfpi" rrtqrgt"wuc i g+"cpf"vjg"gpv"wpkv"qdvckpu"kvu"qy p"gswr o gpv"egtkhkecvkqp<sup>3:4</sup>""Wpfgt"vjgug"tgswtkt o gpvu." o qfwngu"fq"pq"swcnkh{"htq"jki jgt"rqygt0""Hwtvjgt."uwej"fgxkegu" o c{"dg"uugf"cu"rctv"qh"c" o guj"pgvy qtm" dwv" o c{"qpn{"dg"uugf" y kvj"kp"cu"ukpi ng"uvtwevwtg"cpf"pqv"vq"eqppgev"ugrctcvg"dwknfkpi"u"qt"uvtwevwtg0"" Y g" dngkxg"uwej"tgkgh"ku"ct"tgcucpdcng"ceeg o o qfcvkqp"vq"mggr" o quv"rqrwct"eqpuw o gt"fgxkegu"nguu"eq o rngz" cpf" o qtg"chhqt fcdng" y kvj"qvw"kpetgcuksi" vjg"rqvgvkcn"qh"jct o hwn"kpvgthgtgpeg"vq"kpew o dgpv"nkeguggu"cu" vjgug"fgxkegu" y knn"dg"kpucmgf"cpf"uugf"kp"c" o cppgt"cpnciq"quw"vq"cp"ceeguu"rdkpv0"

8:0A Rtqur gevkgxg"/PKK/6"qrgrtcvkqpu"rtqkxfgtu"jcxg"eq o o kvvgf."cu"cp"kpfwuv{"dguv"rtcevekeg."vq" tg o qvgn{"dnqem"fgxkeg\*u"htq o "wukpi"egtvckp"ejcpvgnu"cpflqt"vq"tgfweg"vjg"qrgrtcvkpi"rqygt"qh"vjg" fgxkeg\*u"wrqp"pqvkhkecvkqp"d{"vjg"Eq o o kuukqp"qh"jct o hwn"kpvgthgtgpeg"vq" FqF"tcfcu0<sup>3:5</sup>""D{"nk o kvkpi" vjgkt"rqygt"fgpvk{"cpf"k o rng o gpv"vjg"eqpvtn"qh"vjg"ceeguu"rdkpv"qrgrtcvkqp." y g"ci tgg" y kvj"PVK"vjcv" W/PKK/6"fgxkegu"ecp"qrgrtcvg"kpfaqqt"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"v"vqfc{."FUTE"fgxkegu"ctg"cnqy g f"vq"eqpvkpwg"vq"qrgrtcvg"kp"vjg" nqygt"67" o g icjgtv{"qh"vjg"70;" I J |"dcpf"htq"qpg{"gct"chvgt"vjg"ghhgevkg"fcvg"qh"vjg"Hktu"Trqrv"cpf" Qtfgt0""Ceeqt fkp i n{"W/PKK"fgxkegu"kp"vjg"nqygt"67" o g icjgtv{"qh"vjg"70;" I J |"dcpf" y knn"dg"vg o rqtctkn{"

39:"Hqt"gzc o rng."69"EHT"È"3703 ; \*c+\*5+"tgswtktu"fgxkegu"vq"dgct"vjg" i gpgtci"eqp fkvkqpu"cuuqekcvg" y kvj"rctv"37" qrgrtcvkqp"cpf"69"EHT"È"37043"tgswtktu"vjg"uugt" o cpwcn"vq"ecwvkqp"uugtu"vjcv"gswr o gpv" o qfkhkecvkqpu"pqv"gzr tguun{" cr rrtqxf" d {"vjg"rctv{"tgurqpukdng"htq"eq o rnkpeg"eqwn"qxkf"vjg"uugt"u"cwvj qtkv{"vq"qrgrtcvg"vjg"gswr o gpv0"

3:2"kh" o cpwhcevtgtu"uggm"rgt o kuukxg"ejcpi i gu"vq"vjgkt"gswr o gpv"cwvj qtk|cvkqpu"vq"gzvpgf"W/PKK/5"dcpf"gswr o gpv" kpvg"vjg"W/PKK/6"dcpf"cpf"ctg"pqv"cdng"vq"eq o rn{" y kvj"vjg"ncdngkpi"tgswtkt o gpv." y g"gpewtci g" o cpwhcevtgtu"vq"hnkg" htq"c" y cxgt"qh"vjcv"tgswtkt o gpv"cnqpi" y kvj"vjgkt"cr rnkcevkqp"htq"rgt o kuukxg"ejcpi g0""Urgkhecmn{."kh"vjg"gswr o gpv" qvjgt y kug" o ggu"vjg"twng"etkvtkc"htq"kpfaqqt"gswr o gpv"\*k0g0."rqygt"eqtf."kpvg i tcvgf"cpvgppc."pqp/ y gcvjgtk|gf" gpenquwtg+."c"swkem"cpf"hcxtcdng"fgvt o kpcvkqp"qh" i qqf"ecwug"vq" i tcpv"vjg" y cxgt"tgswguv"ujqwn"dg"rquukdng." dcttkpi"cp{"wphqtuggp"ektew o uvcpegu"kp"c" i kxgp"ecug0"" Y g"ecp"eqpenwfg"pqy"vjcv" y cxgt"tgswguvu" o ggvkpi"vjg"uvcvgf" etkvtkc"ctg"nkmg{"vq"ugtvg"vjg"rdnke"kpvgtguv"dgecwug" i tcpvkpi"vjg o " y knn"gzrgfkvkqun{"gpcdng"gswr o gpv"vq"ugtvg" eqpuw o gtu"cpf"gzrcpf"ceeguu"vq"dtqf dcpf"ugtckegu"cpf"ctg"jki jn{"wpnkmg{"vq"etgcvg"cp{"tkum"qh"jct o hwn" kpvgthgtgpeg0""Vjg"Qhhkg"qh"Gpi kpggtkpi"cpf"Vgej pqqi {" y knn"cev"qp"uwej" y cxgt"tgswguvu"cu"rctv"qh"kvu"fgng icvgf" cwvj qtkv{"vq"qxgtug"vjg"gswr o gpv"cwvj qtk|cvkqp"rtq i tc o 0""See 69"EHT"20463\*d+0""Vjku"cevqpv"vq"c"rtktk"hkpf"uwej" y cxgt"tgswguvu"kp"vjg"rdnke"kpvgtguv"cpf"vtgcv"gzrgfkvkqun{"ku"eqpukuvgpv" y kvj" rtkqt"Eq o o kuukqp"cevqpp0""See. g0 i0." Revision of Part 15 of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-NII) Devices in the 5 GHz Band."GV" Fqemgv" Pq0"35/6 ; ."Report and Order."4 ; "HEE" Tef"6349."635 ; /62."rctcu0"63/64" y jgtg"vjg"Eq o o kuukqp"uvcvgf"vjcv"kv" y qwn"uk o knctn {"vtgcv"W/PKK/5"gswr o gpv" o qfkhkgf"vq"cnuq"qrgrtcvg"kp"vjg" W/PKK/3"dcpf0"

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

3:4"Vjgug"fgxkegu"ctg"tghgtgf"vq"cu"uwdqt fkpvcg"fgxkegu"kp"vjg"twngu0"

3:5"See"Ngvgt"htq o "Fcpgkng"l0"Rk o gtgu."Xleg"Rtgukf"gpv" ("Cuuqekcvg" I gpgtci"Eqwpugn."PEVC."vq"Octngpg"J0" Fqtvej." 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"igqi"tr"jke"ctgcu"kp"y"jkej" FUTE/dcugf" KVU"qrgrtcvkqpu"tg"ockp"kp"vjg"dcpf"kp"vjg"pgct"vgt"o0"

920A Vjgug"eq/ejcppgn"qrgrtcvkqpu"tgs"wtg"wu"vq"fgxgnqr"twngu"vjcv"okpkoklg"vjg"ko"rcev"qh" wpnkegpugf"fgxkeg"qrgrtcvkqpu"qp"KVU"qrgrtcvkqpu0"Cu"chktuv"uvgr."yg"owuv"gxcnvcvg"vjg"rtqdcdknk"qh" jct"ohwn"kpvgthgtgpeg"vjcv"oc{"qeewt"wpfgt"ewttgpn" FUTE"u{uvgo"fgnrq{ogpv"fgpukvkgu0"Qpeg"fgvgt"okpgf." vjcv"rtqdcdknk{"rtqxfkgu"dcuku"hq"cpnc{"kpi"vjg"r"qvgpvkcn"vjcv"wpnkegpugf"qrgrtcvkqpu"okij"vjcxg"qp"eq/ e"jcppgn" FUTE"qrgrtcvkqpu0"Qwt"cpnc{"uku"ku"dcugf"qp"cp"cr"rtqcej"uk"oknct"vq"vjcv"y"jkej"yg"wguf"y"jgp" kpv"qfwekpi"wpnkegpugf"fgxkegu"kp"vq"vjg"8" I J |"dcpf."y"jgtg"nq"y"r"qygt"kp"fqqt"wpnkegpugf"Yk/Hk"fgxkegu" u"jctg"ur"gevtw"o"y"kvj"vjg"nkegpugf"Hzgf"cpf"Oqdkng"Ugtkkgu03:6"Vjcv"dcpf"rtqxfkgu"cnwrg"tkpv"hq"uk"oknct" cpnc{"uku"kp"vjg"70;" I J |"dcpf"cu"vjg"kp"vkn"ujctkpi"tg"ik"og"ku"uk"oknct="pg"y"wpnkegpugf"fgxkegu"y"kn"dg" u"jctkpi"ur"gevtw"o."cndgkv"qp"cv"og"rtct{"dcuku."y"kvj"kpew"odgpv" FUTE"tqcfukfg"wpkvu" \*TUWu+"cpf"qp/dqctf" wpkvu" \*QDWu+0"

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940A kp"vjg" xg"j"keng/vq/xg"j"keng" \*X4X+"eq"o" o"wpkecvkqpu"uegpctkq."kpvgthgtgpeg"htq"o"cp" wpnkegpugf"fgxkeg"ecp"qpn{"qeewt"kh"vjgtg"ctg"cv"ngcu"v"y"q" xg"j"kengu"y"kvj"qxgtncr"rkpi"eqxgtc"ig"ctgcu"cpf" vjgtg"ku"cv"ngcu"qpg"wpnkegpugf"fgxkeg"vtcpu"okwkp"i"y"kvj"kp"vjcv"eqxgtc"ig"ctgc"qp"vjg"uc"o"e"j"cppgn0" Ceeqf"kp"i"vq" W0U0" FQV"tgrqtv" H J Y C/LRQ/39/6:5."vjg"o"czk"ow"o"o"RGT/Htgg"tcp"ig"o"vjg"tcp"ig"y"kvj"kp" y"jkej"vjg"KVU"Rcemgv" Gttq" Tcvg" \*RGT+"ku"dnq"y"42' +ku"822" o"gvgtu"kp"cp"wpqduvtwevgf"gp"xtqg"o"gpv03: "" Yg"guvk"ocvgo"vjcv"kp"cv"v"rkecn"uegpctkq."cv"cp{"kp"uvcnvcvkq"qh"vk"og"vjgtg"ecp"dg"cu"o"cp{"cu"422" xg"j"kengu"kp"vjg" RGT/Htgg"tcp"ig"03: "" Vjgtg"htg."vjg"rtqdcdknk{"vjcv"v"y"q"qt"o"qtg"tcp"fq"on{"ugngevgf" xg"j"kengu"ctg"gs"wr"rgf" y"kvj"cp"QDW"cpf"ctg"y"kvj"kp"vjg"RGT/Htgg"eq"o" o"wpkecvkqpu"tcp"ig"ku"202222854803:2" Vq"uk"o"rnkh{"vjg"

3:6" See"57"HEE" Tef"cv"5: :. "Uwdugevkq"D0" Cnvjqw"ij"vjg"cr"rtqcej" hqt"vjg"nkp"cpnc{"uku"ku"oknct."vjg"qxgtcn" ukvvcvkq"kp"vjg"70;" I J |"dcpf"ku"fkhtgtpv"kp"vjcv"3+"KVU"y"kn"qpn{"dg"qrgrtcvkpi"eq/ejcppgn"y"kvj"wpnkegpugf"qrgrtcvkqpu" kp"vjg"nq"y"gt"67" o"gi"cj"gtv|qh"vjg"70;" I J |"dcpf"qp"cv"og"rtct{"dcuku="cpf"4+"vjg"fgpukv{"qh"70;" I J |"dcpf"kpew"odgpv" KVU"qrgrtcvkqpu"cetquu"vjg" W0U"ku"uk"i"pkhkecpn{"nguu"vjcv"vjcv"qh"kpew"odgpv"qrgrtcvkqpu"kp"vjg"8" I J |"dcpf"0"

3:7" CCUJVQ"Eq"o" gpvu"cv"90"

3:8 See"Uvcvkucvleq"o."Pw"odgt"qh"o"qvqt" xg"j"kengu"tg"ikuvgtgf"kp"vjg" Wpkvgf"Uvcvgu"htq"o"3; ;2"vq"423: ." jwrucllyy"y"0"uvcvkucvleq"o"lucvkucvleu3:5727|pw"odgt"qh" xg"j"kengu"kp"vjg"wpkvgf"uvcvgu"ukpeg/3: ;21" \*ncuv" xkukvgf"Qev0"49."4242+0"

3:9" See"dvu0"iqx."Rwdnke" Tqcf"cpf"Uvtggn"Okngc"ig"kp"vjg" Wpkvgf"Uvcvgu"d{"V{"rg"qh"Uwthceg." jwrucllyy"y"0"dvu0"iqxleqpgpv"rwdnke/tqcf/cpf/uvttgvg"o"knkc"ig"wpkvgf"uvcvgu/v{"rg"uwthceg" \*ncuv" xkukvgf"Qev0"49."4242+0"

3: See" W0U0" FQV"tgrqtv" H J Y C/LRQ/39/6:5."cv"6:/74."Vcdng"9." jwrucll"tqcr"0"pv"0"dvu0"iqx"l"kg"y"l"fqv"53849" \*ncuv" xkukvgf" Qev0"49."4242+0"

3: "kp"cv"hw"t"ncpg"tqcf"y"c{"y"kvj"c" xg"j"keng"gxgt{"34" o"gvgtu"vjgtg"y"kn"dg"422" xg"j"kengu"kp"cv"822/ o"gvgt"uvtgve"j0" See" jwrucllyy"y"0"ftxkpi"vguvweegu0leq"o"ldnq"i"luchg"ugrctcvkq"p"fkucpeg" \*ncuv" xkukvgf"Qev0"49."4242+0" Vjku"ku"cnuq" eqpukvgpv"y"kvj"vjg"v"rkecn"uegpctkq"cu"fhkpgf"kp"vjg" W0U0" FQV"tgrqtv" H J Y C/LRQ/39/6:5" See" vjg"tgrqtv"cv"429." cpf"63+0" Hwtv"jgt"o"qtg."vjg"o"czk"ow"o"pw"odgt"qh"fgxkegu"vjg" FUTE"u{uvgo"ecp"j"cp"fnq"ku"cdqvw"422" xg"j"kengu0"

3:2" Vjg"rtqdcdknk{"vjcv"c"tcp"fq"on{"ugngevgf"tg"ikuvgtgf" xg"j"kengu"kp"vjg" Wpkvgf"Uvcvgu"ku"gs"wr"rgf"y"kvj"cp"QDW"ku" 37.7281496.222.222"qt"202222790" Vjg"rtqdcdknk{"vjcv"cv"ngcu"v"y"q"tcp"fq"on{"ugngevgf" xg"j"kengu"qvw"qh"422"tg"ikuvgtgf" xg"j"kengu"ctg"gs"wr"rgf"y"kvj"cp"QDW"kp"cv"RGT/Htgg"tcp"ig"ku"20222285480"

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950A Uk o knctn{"kp"vjg"Xgjkeng"vq"kphtcuvtwevwtg"\*X4K+"eqo o wpkecvkqpu"ukvwcvkqp."kpvtgthtgpege"htqo"cp"wpnkegpugf"fgxkeg"ecp"qpn{"qeewt"kh"vjg"tjg"ku"cv"ngcu"ppg"Xgjkeng"cpf"cv"ngcu"ppg"wpnkegpugf"fgxkeg"vtcpuokvvpki"ykvj"kp"vjg"ctgc"qp"vjg"ucog"ejcppgn<sup>0</sup>"Dgecwug"vjg"qp/dqctf"wpkv"vtcpuokv"nqygt"rqygt."kvu"qrgtcvki"tcpig"ugvu"vjg"nkog"v"qxt"y"jkej"cpn{"uku"ujqwnf"dg"eqpfwevgf<sup>0</sup>"Vjwu."hqt"vjg"X4K"uegpctkq."qwt"cpn{"uku"cuuwog"vjg"ucog"RGT/Htgg"tcpig"cpf"vjg"ucog"pwodgt"qh"Xgjkeng"cu"hqt"vjg"X4K"nkpml<sup>0</sup>"Vjg"rtqdcddknkv{"qh"ctcpfqon{"ugngevgf"Xgjkeng"gswwrgf"ykvj"cp"qp/dqctf"wpkv"cpf"ykvj"kp"vjg"RGT/Htgg"tcpig"qh"ctgc"qp"vjg"ucog"ejcppgn"ku"2022222830<sup>3:5</sup>"Cu"kp"vjg"X4K"uegpctkq."vjg"yqtuv"ecug"yqwnf"qeewt"y"jgp"vjg"rtqdcddknkv{"qh"cp"wpnkegpugf"fgxkeg"vtcpuokvvpki"ykvj"kp"vjg"ctgc"qp"vjg"ucog"ejcppgn"ku"ppg<sup>03:6</sup>"Vjwu."vjg"rtqdcddknkv{"qh"kpvtgthtgpege"ku"hwpevkqp"qh"vjg"rtqdcddknkv{"vjcv"ctcpfqon{"ugngevgf"Xgjkeng"ykvj"kp"vjg"RGT/Htgg"tcpig"qh"ctgc"qp"vjg"ucog"gswwrgf"ykvj"cp"QDW."2022222830"

960A Cu"ykvj"qwt"8" I J | "dcpf"cpn{"uku."yg"eqpukfgt"qvjgt"ko"rqtcv"p"hecvqtu"uwej"cu"dwknfki"gpvt{"nquu."rtqdcddknkv{"qh"htgswgpe{"qxtncr."wpnkegpugf"fgxkeg"cpvppc"fkuetokpvcvqp."rcvj"nquu."enwvgt"nquu."cpf"rqctk|cvkqp"nquu<sup>0</sup>"Kp"eqpukfgtki"vjgug"hecvqtu."yg"vtcv"cn"qh"vjg"uvcvkvkcn"swcvkvkvgu"wkpi"ctogfkc"qt"cxgtcig"xcnwg."cu"ku"eqo o qpn{"fppg"kp"nkp"dwf"igv"cpn{"ugu<sup>03:7</sup>"Dgecwug"yg"ctg"nkogkvi"vjg"wpnkegpugf"fgxkeg"vq"kp/dwknfki"wg"wpkn"ppg{"gct"chvgt"vjg"ghgkxg"fcvg"qh"vjku"Hktu"Trqvt"cpf"Qtfgt."vjg"eq/egcppgn"cpn{"uku"kpewfgu"dwknfki"gpvt{"nquu"cpf"wgug"ctogfkc"xcnwg"qh"4207"fd."eqpukvgp"ykvj"vjg"92152"dwknfki"gpvt{"nquu"ctogkz"qh"92"vtc"fkvqpcn"cpf"52"vjgtocm{"ghhkegpv"dwknfki"v"rgu"vjcv"vjg"Eqo o kuukqp"tgeqpk|gf"kp"vjg"6 GHz Report and Order<sup>03:8</sup>"Vjg"rtqdcddknkv{"qh"htgswgpe{"qxtncr"fgrgpfu"qp"vjg"pwodgt"qh"wpnkegpugf"fgxkeg"ejcppgn"cxckndng="vjg"jkijgt"vjg"pwodgt"qh"cxckndng"

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

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

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3:7"See"57"HEE"Te"cf"5; : ."rctcl<sup>0</sup>3490"

3:8"See"57"HEE"Te"cf"5; 55."rctcl<sup>0</sup>43:0"

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970A Kp"vjg"6 GHz Report and Order."vjg"Eq"o"kuukqp"fgvgt"okpgf"vjcv"v{rkecn"kp"fqqt"
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y jkej"qxtg"nqpi"fkuvcpogu"ecp"tguwv"kp"gzvtg"ogt{"eqpugtxcvkxg"ecnewncvku"vjcv"wpfvtg/rtgfkev"vjg"o"qwpv"
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eq"o"wpkcvkqp"gpvktqp"ogpvu."y jgtg"enwvgt"nquu"ecp"dg"svkwg"uwdvcpvkn"fgrgp"fkpi"qp"vjg"ugrctcvkqp"
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qtkpvcvkqp"qh"vtcpu"okv"cpf"tgegxg"cpvppcu03::"

980A Kp"vjg"6 GHz Report and Order."vjg"Eq"o"kuukqp"tgeqipk|gf"vjcv"kphgtgpeg"htq"o"Yk/Hk"
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dgvyggp"vjg"vyq"0522"ogvgtu"htq"o"gej"qp/dqctf"wpkvu0"Cuuwo"kp"iczko"wo"42"fD"o"IOJ|"ceeguu"
rqkv"vtcpu"okv"rqygt"qxtg"vjg"382/ogicjgtv|"ejcppgn."423"vjg"tgegxg"kpvgthgtgpeg"rqygt"vjg"qp/dqctf"
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fgrnq|gf"cpf"vjg"qj"vjg"ctg"fgrnq|gf"ctg"tgswtkfg"vq"xcev"vjg"dcpf"kp"qpg" {gct0"Vjwu."cp{"tgswtg"ogpv"

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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"

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fDo"6"32,nqi32\*382+?"36"fDo"IOJ|0"

424"Uvcnkpiu."Y0."Fcv"cpf"Eq"orwgt"Eq"o"wpkcvkvku"627/62;.\*4236+0"

425"See W0U0"Frctv"ogpv"qh"vtcpu"qvtcvkqp."Fgxgnr"ogpv"qh"Yg"tge"vq"Eq"o"wpkcvkqp"U{uvg"o"Rgthqt"o"cpog"
Ogcuwtgu"tgeq"o"ogpfcvkvu"htq"Yg"tge"vq"QDG"Rgthqt"o"cpog"cpf"Ugewtkv{"Tgswtg"ogpv"cv"63\*4238+."
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Parte"cv"4.

427" Cnkcpog"htq"cwvq"okv"qkxg"kpqxcvku"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" y g" 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" tgcupcdng" qr rqtvpkv { "hqt" vj g" fkhgtgpp" wugtu" vq" vtcpu o kv. 428" gxgp" y kvj qvw" c" tgswktg o gpv. "gzkuvki" FUTE" qrgtcvkqp" y knm" dpgghkv" fwtkpi" vj g" qpg/ { gct" vtcupkvkqp" rgtkf" cu" vj cv" ecrdcknv { "y knm" rtxgpp" wpnkegpugf" 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" nq y" Yk/Hk" cevxxkv { 429" ecp" tguwnv" kp" nq y 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" hgcwvtgu" uwe j" cu" vj g" Yk/Hk" eqpvpgvkqp/dcugf" rtqvqeqn" rtqxfg" cuuwtcpeg" 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" nq y" nqc" f" hcevt" qp" vj g" KVU" pgy y qtm. 42: "c" 34" fD" o cti kp" dgnq y" vj g" qp/dqctf" wpkv" tgegkxgf" r q y gt. "vj g" eqpvpgvkqp/dcugf" rtqvqeqn" cpf" nq y" cevxxkv { "hcevt" qh" Yk/Hk" fgxkegu. "y g" eqpenwfg" vj cv" vj g" 42" fD o l O J | " y g" ctg" c" fqrkpi" vq" rtqvgev" hgfgtcn" qrgtcvkqp" y knm" uk o knctn { "rtqvgev" FUTE/dcugf" xgjkeng/vq/xgjkeng" \*X4X+" qrgtcvkqp" htq o " eq/ej cppgn" jct o hwn" kpvgtgtgpeg" fwtkpi" vj g" vtcupkvkqp" 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" fkuvcepeg. "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" nq y gt" vj cv" vj g" X4X" nkpm" \*2022228548+ "cpf" hqmq y kpi" vj g" uc o g" nq i ke. "y g" eqpenwfg" vj cv" vj g" 42" fD o l O J | " y g" ctg" c" fqrkpi" vq" rtqvgev" hgfgtcn" qrgtcvkqp" y knm" uk o knctn { "rtqvgev" FUTE" X4K" qrgtcvkqp" htq o " eq/ej cppgn" jct o hwn" kpvgtgtgpeg" y jkn g" vj g" { "ctg" uvknn" qrgtcvkpi" kp" vj g" nq y 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" fqrkpi" twngu" vj cv" nk o kv" enkgpv" fgxkegu" vq" r q y gt" ngxgnu" 8" fD" dgnq y" vj g" r q y gt" nk o kvu" hqt" ceeguu" rqpvu0 42: " Y g" hkp f" vj ku" cr r q r t k c v g" v q" t g f w e g" v j g" r q v g p v k c n" q h" j c t o h w n" k p v g t h 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" v j 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" v j g" { " o q x g" q w v" q h" v j 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" v j c v" y k n m" t g o c k p" k p" v j g" d c p f 0" " K p" i g p g t c n. " c" e n k g p v" f g x k e g" q r g t c v g u" w p f g t" v j g" e q p v t q n" q h" c p" c e e g u u" r q k p v" d w v. " 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 e p e g" h t q o " v j 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 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 h g t g p v" k p v g t h g t g p e g" r q v g p v k c 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" v j 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" v j g" k p f q q t" c e e g u u" r q k p v u" c p" v j w u" m g g r" v j g" r q v g p v k c n" h q t" 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" n q y. " y g" c t g" 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" v j g" e q p v t q n" q h" c p" c e e g u u" r q k p v" c p f" n k o k v k p i" v j g k t" R U F" c p f" o c z k o w o" v t c p u o k v" r q y g t" v q" 8" f D" d g n q y" v j g" r q y g t" r g t o k v g f" h q t" v j g" c e e g u u" r q k p v 0" V j g" t g s w k t g o g p v" v j 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" v j g" e q p v t q n" q h" c p" c e e g u u" r q k p v" k u" u k o k n c t" v q" v j g" t g s w k t g o g p v" v j 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 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 x g p p v" 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 h 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" v j g" 70: ; 7 / 7 0 ; 4 7" I J | d c p f 0" " Y g" g z r n q t g" k p" v j 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" v j 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 v" q h" v j g" W / P K K / 6" d c p f" c p f" q p n { " 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: ; ; , " rctcl" 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 x g c m u" v j c v" v j 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" v j 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 q t" k u" 206 ' 06" " See" PEVC" Tgrn { . " Cwcej o g p v" 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" xgjkengu" ctg" kp" vj g" RGT/Htgg" tcp i g. "hqt" c" pgy y qtm" vj cv" ecp" j cp fng" 426" xgjkengu" vj ku" ku" c" xgt { "nq y" pgy y qtm" nqc f0

42: "See"57"HEE" Tef" cv" 5; 44. " rctcl" 3: ; ; " c p f" 69" EHT" E" 370629\* c + 3 \* k x + " n k o k v k p i" W / P K K / 3" e n k g p v" f g x k e g u" v q" 472" o Y" q t" 8" f D" d g n q y" v j g" 3" Y" r g t o k w g f" h q t" c e e g u u" r q k p v 0

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

## (iii) Out-of-Band Emission Limits

:20<sup>433</sup> 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"tgswkgtf"htq"W/PKK/5"fgxkegu"cv"vjku"htgswgpe"{"="y g"uqwi"jv"eq o o gpv"i gpgtcnm"{"qp"vjg"QQDG"nk o kvu"y g"ujqwnf"cr rn"{"cv"vjg"wr rgt"gp f"qh"vjg"W/PKK/6"dcpf<sup>0433</sup>"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 ggv"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."klg0."cv"70947" I J | ."y jkng"pqv"ko rqukpi"cp"QQDG"nk o kv"htq"W/PKK/6"fgxkegu"cv"vjg"W/PKK/51W/PKK/6"dcpf"gf i g"klg0."cv"70: 72" I J | +<sup>034</sup>"Vjgug"rtqrqguf"y g"gtg"kpvgp"gf"vq"uwr rqtv"ugrctevg"W/PKK/5"cpf"W/PKK/6"dcpfu"vq"rtqxfg"hgzkdkkv"{"htq"fguk"ipki"W/PKK/5"sgwkr o gpv"wpfgt"vjg"nguu"uvtkp"ipv"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 kfv"ju"rgt o kvgf"wpfgt"vjg"KGGG": 24033"uvpcfctf<sup>0435</sup>

:30<sup>434</sup> Rtqrqpgpvu"qh"KVU"qrgtcvkqpu"eqvpgp"vjcv"vjg"rtqrqguf"wpnkegpugf"fgxkeg"QQDG"nk o kv"cv"70; 47" I J | "ku"pq"tguvkevkxg"gpqwi"j"vq"rtqvgv"KVU"qrgtcvkqpu"kp"vjg"70: ; 7/70; 47" I J | "dcpf"htq o "jct o hwn"kpvgthtgpegl<sup>0</sup>"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 ggv"QQDG"nk o kvu"vjcv"ctg" o wej" o qtg"tguvkevkxg"vjcv"vjg"gzkukpi"W/PKK/5"QQDG"nk o kvu" I gpgtcn"Oqvqtu"uwi"i guvu"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 | "dg"{"qp"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 guvu"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"Vgejpkcnc"cfxkuqt" I tqwr."cpf"Xqnmuy"ci 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 guvu"vjcv"QQDG"dg"nk o kvgf"vq"/32: "fd o l o J | ." o gcuwgtf"cv"vjg"E/X4Z"fgxkegl<sup>0436</sup>" J q y g x g t . "KVU"rtqrqpgpvu"qhhtg"vjcv"vjg"QQDG"nk o kvu"ecp"dg"tgnczgf"cu"nqpi"cu"W/PKK/6"fgxkegu"ctg"tguvkevgf"vq"kp f q q t / q p n {"wug<sup>0</sup>"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"tgnczgf"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 | 0 <sup>437</sup> " S w e n e q o o " c u u g t v u " v j c v " 7 I C C o 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 g e v " 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 g e v " 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 <sup>0438</sup>

:40<sup>435</sup> Rtqrqpgpvu"qh"wpnkegpugf"qrgtcvkqpu"qr r q u g " v j g " r t q r q u g f " / 4 9 " f d o l o J | " Q Q D G " n k o k v " c v "

<sup>433</sup> See 5.9 GHz NPRM."56"HEE"Tef"cv"34845."rctc<sup>0</sup>"760" Wpfgt"vjg"Eq o o kuukqpou"ewttgp"twngu."g o kuukqpu"htq o "vtcpu"okvgtg"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 <sup>0</sup> " 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 "

<sup>434</sup> 5.9 GHz NPRM."56"HEE"Tef"cv"34845."rctc<sup>0</sup>"770"

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

<sup>436</sup> 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"Vgejpkcnc"cfxkuqt" I tqwr"Eq o o gpvu"cv"33="Xqnmuy"ci gp"Eq o o gpvu"cv";="cpf"htq"Eq o o gpvu"cv"32<sup>0</sup>

<sup>437</sup> 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<sup>0</sup>"32<sup>0</sup>"4242" Ex Parte cv"3/4<sup>0</sup>

<sup>438</sup> 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"
rquukdknk{"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"rtqrqpgpvu"uwi iguv"
o qtg"tgnczgf"QQDG"nk o kvu"htq"wpnkegpugf"qrgtcvkqpu"kp"vjg"W/PKK/6" dcpf"vjcp"rtqrugf"kp"vjg"5.9 GHz
NPRM0"YKURC"uwd o kvu"vjcv"kp fqqt"wpnkegpugf"qrgtcvkqpu"eqwnf"jcxg"c"/7" fD o l O J |"QQDG"nk o kv"cv"qt"
cdqxx"70: ; 7" I J | 043:"Dtqcf eq o."EcdngNcd u."Hcegdqqm."cpf"PEVC"vq igv jgt"uwi iguv"vjcv"vjg"QQDG"htq"
kp fqqt"wpnkegpugf"qrgtcvkqpu"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" Cmnkcp e g"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" Cmnkcp e g"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"cdqxx"70: ; 7"
I J |."y jkej"y qwnf"cmnq"y"W/PKK/6" fgxkegu"vq"rtqxfk"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"
Cmnkcp e g"cnuq"uwr rqtu"cr rn"kp i"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"ejcpgpn"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"kl0g0."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"
qrgtcvkqpu."cpf"vjqug"nk o kvu"jcxg"rtqxxp"vq"dg"ghhgevkvxg"htq"vjg"rtqvgevkp"qh"kpew o dgpv"qrgtcvkqpu"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"hcvtu."vq"rtqxfk"hgzkdknk{"
cpf"o czk o w o"wnknk{"vq"Co g tkecp"eqpuw o gtu0"Vjku"hgzkdknk{"ecp"dg"rtqxfk"gf d{"cf qrvkpi"Yk/Hk"
Cmnkcp e g"u"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"ceeqwvpgf"htq"dwknfkpi"cvpgpwcvkqp0"Yg"hwv jgt"gzrgev"vjg"ugrctcvkqp"
fkuvcp e g"dg v y ggp"kp fqqt"W/PKK/6" fgxkegu"cp f"KVU"qrgtcvkqpu"y qwnf"hwv 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 iguv"gf d{"KVU"rtqrqpgpvu"ctg"pggf gf"vq"rtqvgev" FUTE"qrgtcvkqpu"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"qrgtcvkqpu0446"Yg"ctg"cnuq"pqv"rgtuwcf gf"vjcv"vjg"o qtg"tgnczgf"QQDG"nk o kvu"uwi iguv"gf d{"

439" See, e.g., "Dtqcf eq o."Kpe0"cpf"Hcegdqqm."Kpe0"Eq o o gpvu"cv"7/8="F {p c o k e"U r g e t w o "C m n k c p e g"Eq o o g p v u"cv"6="Y k /
H k" C m n k c p e g"Eq o o g p v u"cv"8/90"

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

43: "Ngwgt"htq o"Ejtku"U | {o cpumk."Dtqcf eq o="Tqd"Cnfgthgt."EcdngNcd u="Cncp"Pqt o cp."Hcegdqqm."cpf"Fcpgkngg"
Rk o g t g u."PEVC."vq"Octngpg"J 0" Fqtvej."Ugetvcvt {.HEE."GV" Fqemvg" Pq 0 3 ; / 3 5 : "\*" h k n g f" L w n { " 5 3 . 4 2 4 2 + \* E q 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"

442" Yk/Hk" Cmnkcp e g"Eq o o gpvu"cv": 0"

443" Yk/Hk" Cmnkcp e g" T g r n { " c v" 9 / : 0 " " 7 I C C" f k u c i t g g u" y k v j" v j g" Y k / h k" C m n k c p e g" u" r t q r q u g f" g o k u u k q p" o c u m." c u u g t v k p i" v j c v"
p q v" c n n" d w k n f k p i" u" g z j k d k v" 4 2" f D" q h" c v g p w c v k q p" n q u u 0 " 7 I C C" P q x 0 ; . 4 2 4 2" E x P a r t e" c v" 5 0"

444" Yk/Hk" Cmnkcp e g"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" 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 g t t k p i" c" f g e k u k a p" q p" y j g v j g t" v q" c m 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" 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 + . " r e c o n . d e n i e d -
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 . " O g o q t c p f w o " Q r k p k q p" c p f" Q t f g t . " 5 3 " H E E" T e f" 4 5 3 9 . " 4 5 4 6 . " r c t c 0 " 4 5 \* 4 2 3 8 + 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."Og o q t c p f w o " Q r k p k q p" c p f" Q t f g t . " 5 3 " H E E" T e f" 4 5 3 9 . " 4 5 4 6 . " r c t c 0 " 4 5 \* 4 2 3 8 + 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"dcpfu0" V jgug"nk o kvu"y knn"rtqxkf g"hgzkdknkv {"vq"fgukip"W/PKK/5"gs wr o gpv"wp fgt"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 kf guv"ej cppgn"dcpf y kf vj u"rgt o kvv g"wp fgt"vj g"KGGG": 24033"uvcpfct f0" 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"fgxkegu0"Dtqcf eq o."EcdngNcdu."Hcegdqgm."cpf"PEVC"uvvvg"vj cv"vj gkt"rtqrqugf"QQDG"xcnwg u"j qwnf"dg" o gcuwtg"wkupi "c"tqqv" o gcp"uswctg"TOU+" o gcuwtg o gpv0"V jgug"rctvkgu"eqpvpgf"vj cv"cp"TOU" cxgtc i g" o gcuwtg o gpv"ku"vj g" o quv"cr rtrtkcvg" o gv j qf"vq"gpwgt"rtqvgevkp"htq"cf lcegpv"qrgtcvkqpu."cu"vj g" Eq o o kuukqp"hqwpf"kp"vj g"8" I J |"rtqeggf kpi 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 rtrtkcvg"cr rtrtce"vj g"vq"qh"vj g"70;" I J |"dcpf."kv"ku"nkm g y kug"cr rtrtkcvg"htq" vj g"dqvq o"qh"vj g"70;" I J |"dcpf0447" Y KURC"uud o kvu"vj cv"wkupi "cp"TOU"0k0g0."cxgtc i g" 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"nkegpug0" Y KURC"ct i 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 gv j qf."ctg"nguu" fg o qpvtcvkxg"qh"vj g"cewcn"rqvpgvkn"htq"ecwukpi "jct o hwn"kpvgthgtgpeg0" Y KURC"eqpvpgfu"vj cv"cnv j qwi j" hgfgtcn"tcfkqncevkp"u{uvv o u"qrgtcvg"kp"vj g"70: 72/70; 47" I J |"dcpf."vj qug"qrgtcvkqpu"ctg"kp/dcpf"cpf" rtrqvgevg" d{"vj g" i gqi tcr jke"rtqjkdvkqp"qp"qrgtcvkp"pgct"vj g o 0" Y KURC"hwv jgt"eqpvpgfu"vj cv"vj g"TOU" o gcuwtg o gpv"ku" o qtg"cr rtrtkcvg"htq"fgvgt o kpkpi "rqvpgvkn"kpvgthgtgpeg"dqvj"vq"KVU"u{uvv o u"cpf"vq"rctv" 323"hzg f"u{uvv o u"qrgtcvkpi "cdqxg"70; 47" I J |0448" PEVC"uwi i guvu"vj cv"QQDG"nk o kvu"uj qwnf"dg"xtghkfg" wkupi "cp"TOU"fgvgevt"qt"qv jgt"cr rtrtkcvg"vge j pks wgu"htq" o gcuwtkpi "cxgtc i g"rq y gt."cu"vj g"Eq o o kuukqp" tgeq i pk i g f"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 y gt"y cu"kpukvvgv f"vq" o kvk i cvg"cm p q y p"kpvgthgtgpeg"kuuwg"y kvj"hgfgtcn"tcfctu"vj cv"ku"pqv"rtgugpv"kp" vj g"70;" I J |"dcpf0449"

: 70A Cp"TOU"fgvgevt" o c{"dg"wguf"vq"eqpfwev"70;" I J |"wpnkegpugf"fgxkeg"QQDG" o gcuwtg o gpvu0"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"vq"qh"vj g"70;" I J |"dcpf"uj qwnf"dg"xtghkfg" wkupi "cp"TOU"fgvgevt"qt"qv jgt"cr rtrtkcvg"vge j pks wgu"htq" o gcuwtkpi "cxgtc i g"rq y gt044:" Y g"y knn"rtqxkf g" i wkfcpeg"vq"vj g"vguv"ncdu"cpf"vgngeq o o wpkecvkqpu"egvkhkcevkv"dqfkgu"y jkej"eqpfwev"gs wr o gpv"cr rtrtkcvg" o gcuwtg o gpvu"cpf"gs wr o gpv"cr rtrtkcvg"vge j pks wgu"htq" o gcuwtkpi "TOU" o gcuwtg o gpvu"tgr tguvpg"vj g"eqvkvpgwqu" r q y gt"dgkpi " i gpgtcvgf"htq o "c"fgxkeg."cu"qr rqugf"vq"rgcm"rq y gt."y jkej" o c{"qna{"dg"tgcj g"qecukqpcn{" cpf"htq"uj qvtv"rgtkfu"qh"vk o g."y g"dgngxg"cp"TOU" o gcuwtg o gpv"ku" o qtg"cr rtrtkcvg"htq"gpwtkpi "vj cv"W/ Pkk"fgxkegu0"rqvpgvkn"htq"ecwukpi "jct o hwn"kpvgthgtgpeg"vq"cf lcegpv/dcpf"qrgtcvkqpu"ku"uk i pkhkecpvn {" o kpk o k i g f0" 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" Rk0gtgu."PEVC."vq"Octngpgg"J0"Fatvej."Ugetgvct{."HEE."GV"fqemvg"Pq03;/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."rctc03; :."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"vq"qh"vj g"70;" I J |"dcpf"uj qwnf"dg" xgtghkfg"wkupi "cp"TOU"fgvgevt"qt"qv jgt"cr rtrtkcvg"vge j pks wgu"htq" o gcuwtkpi "cxgtc i g"rq y gt+0"

448"See"ngwgt"htq o " Y KURC"vq"Octngpgg"J0"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."rctc03; :."

44:"6 GHz Report and Order."57"HEE"Tef"cv"5; 48."rctc03; : 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 tqeg fwtg" y cu" kpukvwvgf"vq" o kvk i cvg" r qvgpvkcn"kpvgthgtgpeg" y kvj" vgt o kpcn" Fqr rntg" y gcvjgt" tcfctu" y jkej" ctg"pqv" r tguvkv"kp" vjg"70;" I J | "dcpf"0" Y g" y knn" w r fcvg" qwt" Mpqy ngf i g" Fcvcducg" i wkfcpeg" eqpukuvgpv" y kvj" v jku" fgekukqp0"

b. Outdoor Unlicensed Operations

: 80A Cnv j qwi j" y g" ctg" pqv" rgt o kvkpi" qwvfqqt" wpnkegpugf" qrgtcvkqpu" cetquu" vjg"70: 72/70: ; 7" I J | " rqtqkp" qh" vjg"70;" I J | " dcpf" cv" vjku" vk o g." y g" pqpvgv j gnguu" y knn" cnuq y" nk o kvgf" qwvfqqt" qrgtcvkqpu" \*qp" c" pqp/kpvgthgtgpeg" dcuku+" v j tqwi j" gkvjgt" vjg" UVC" qt" qv jgt" gzkukpi" tg i wncvqt { " r t q e g u g u 0" V j g" E q o o k u u k q p" y knn" eqqt f kpcvg" 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 knn" 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 0452"

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 0453" 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 q 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 q 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 r" 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 0454"

: ; 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 g t x k e g u" t g n { k p i" q p" v j g"70;" I J | " d c 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 q 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 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 0455" 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 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 q 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 q 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" uggm" eq 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 c 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 q p" | q p g u." v j g" E q o o k u u k q 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 q 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 v 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 q p" | q p g u" P V K C" j c u" r t q r q u g f 0" See 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 qtmu<sup>457</sup>"

;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"dgpgkhv<sup>458</sup>"Vjg"Yk/Hk"Cnnkcepeg"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{"qtdkv<sup>459</sup>"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 jgt<sup>45</sup>:"

;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"jqy"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"qvwfqqt"ceeguu"r qkvou"cpvppc"rcwgtg."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"o"r tgecwkqpcct{"o gcuwtg."jqy gxtg."cpf"vq"hwvtjgt"rtqvgev"HUU"qrgtcvkqpu."y g"rtqrqug" kp"vjg"HWtjgt"pqvkeg"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"gzkukpi" 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"Rtqrqpgpu"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"qrgtcvkqpu<sup>45</sup>:"J qy gxtg."vjg{"f'p'p'kpenwfg"cp{"urgekhe" vgejpkcnc"pcnc"uku"htq"vjgkt"rctvkewnt"rqukvkp<sup>45</sup>:"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"qrgtcvkqpu<sup>462</sup>"

;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"

<sup>457</sup>"UGU"C o gtkeq o "cpf"kpvgncv"Tgrn{"cv"70"  
<sup>458</sup>"PEVC"Eq o o gpvu"cv"680"  
<sup>459</sup>"Yk/Hk"Cnnkcepeg"Eq o o gpvu"cv"70"  
<sup>45</sup>:"YKURC"Eq o o gpvu"cv"90"  
<sup>45</sup>:"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"  
<sup>462</sup>"C o cvgwt"Vngxkukqp"Pgvy qtm"Eq o o gpvu"cv"4-"Ucp"Dgtpctfkkp"Oketqy cxg"Uqekv{"cv"80"

qrgrtcvg"cu"eq o rctgf"vq" c o cvgwt"uvcvkqpu." y jkej "ctg" rgt o kwgfv"vq" qrgrtcvg" y kvj "cu" o wej "cu" 307"m Y"\*84" fD o + "rgcm" gpxgnqrg" r qy g t<sup>463</sup> "Hwtvjgt o qtg." cu" p qv g f" cdq x g." vj g" C o cvgwt" Ugtxkeg" ku" cp" c m n q e c v g f" u g t x k e g" v j c v" k u" g p v k v n g f" v q" k p v g t h g t p e g" 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 r 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 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 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 p<sup>464</sup>

; 60<sup>A</sup> 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 r t c v k q p u<sup>465</sup> " 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 r 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 u<sup>466</sup> " V j w u." k p" v j g" 5.9 GHz NPRM." v j g" E q o o k u u k q 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 r 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 r 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 f<sup>467</sup> " V j g t g h q t g." y g" f k u o k u u" u 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<sup>A</sup> 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 u<sup>0</sup> " 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 r 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 r 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 k 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 r t c v k q p u<sup>0</sup> " H k p c m { . " 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 r 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 r 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<sup>A</sup> 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 r 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 | + .<sup>468</sup> 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 r t c v k q p u<sup>469</sup> " 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 l<sup>0</sup> " 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<sup>46:</sup> " 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<sup>46:</sup> " Y g" h w t v j g t

<sup>463</sup>"69"EHT"È";90535\*d+0"

<sup>464</sup>"69"EHT"ÈÈ"40328."3707\*d+/\*e+0"

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

<sup>466</sup>"69"EHT"ÈÈ"40327\*g+. "p030"

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

<sup>468</sup>5.9 GHz NPRM."56"HEE"Tef"cv"34835/37."rctcul"46/490"

<sup>469</sup>5.9 GHz NPRM."56"HEE"Tef"cv"34837/38."rctcul"4:/530"

<sup>46:</sup>5.9 GHz NPRM."56"HEE"Tef"cv"34835."rctcl"460"

<sup>46:</sup>5.9 GHz NPRM."56"HEE"Tef"cv"34838."rctcl"530"

pqvfg"vjcv" FUTE"cpf"E/X4Z" ygtg"vgejpkecn{"kpeq o rcvkdng<sup>472</sup> Yg"wpfgtueqtf"qwt"iqcn"qh"rtq o qvki" vjg" o quv"urgetvcnn{"ghhkekgpv" wug"qh"vjg"KVU" dcpf."cpf"kp'xkvgf"eq o o gpv"qp"j q y"dguv"vq"gpwutg"vjcv" y g" qrvk o k|g"vjg" dcpf" hqt" fgkxgt {"qh"KVU<sup>473</sup>

; 90<sup>4</sup> 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{"wdkswkvwu<sup>474</sup>"E/X4Z"tghngevu"vjg"ghhqtvu"qh"cfkxgtug"i tqwr"qh"eq o o wpkecvkqpu"cpf" vtcprqvtcvkqp"kpfwuvt {"uvcmgjqnfgtu"vq"kpvg"i tcvg"vjku"vgejppnqi {"kp'vq"KVU" wug<sup>475</sup>"Dcugf"qp"vjg" kphqt o cvkqp" kp"vjg"tgeqtf." y g" hkp"vjg" rwdnke"kpvtgguv" y kmm"dg"ugtxgf"d {"cfqrvkpi" E/X4Z"cu"vjg"KVU" fgkxgt {" vgejppnqi {"kp"vjg"gpvktg"52" o gicjgtv| "qh"vjg"KVU" dcpf." y jkej"kp"vwtp"tgsuktgu"r jcuqi /qww"vjg"gzkuvki" FUTE"vgejppnqi {"0

; :0<sup>4</sup> Vjg"Eq o o kuukqp"tgekgxf"pw o gtqwu"eq o o gpvu"htq o "cwwq o qdkng" 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 {"<sup>474</sup> Pqpg"qh"vjgug"eq o o gpvgtu"uwr rqtv"nk o kvki" E/X4Z"vgejppnqi {"vq"qpn {"vjg"42/ o gicjgtv| " rqtvcvkqp"qh"vjg"KVU" dcpf"cu"rtqrqvgf"kp"vjg"5.9 GHz NPRM"cpf."vq"vjg"gzvgpv"vjg"Eq o o kuukqp"rtqxfkgu" qpn {"52" o gicjgtv| "hqt"KVU."uwr rqtv" wug"qh"vjg"gpvktg"52" hqt" E/X4Z<sup>475</sup> Uq o g"qh"vjgug"eq o o gpvgtu"uw i iguv" vjcv" y g" i q" hwtvjgt"cpf"ugv"cu'kfg"vjg"gpvktg"97" o gicjgtv| "hqt"KVU" wukpi" E/X4Z"vgejppnqi {"<sup>476</sup> Uwr rqtvtgu" qh" E/X4Z"vgejppnqi {"ekvg" dgpghkvu"qxgt" FUTE."uwej"cu"dgwvgt"rgthqt o cpeg"cpf"nkpmci g"vq"7 I"vgejppnqi {" y jkej" gpcdngu"cr rnkcevkqpu"vq"eqpvkpwg"gxqnxkpi"cpf"rtqxfkgu" hqt" hcuvgt" k o rng o gpvcvkqp<sup>477</sup> Y g" cf'fkvqpcenn {"pqvg"vjcv"ugxgtcn"gpvkvku" y kvj" qpi qkpi"kpvtgguv"kp" FUTE"qrgtcvkqpu"cuuq" i gpgtcnn {"uwr rqtv" tgvckkpi"cu" o wej"KVU"urgetwo"cu" rquukdng"cpf."c o qpi"vjgug."uq o g"zrtguugf" c" y kmmkpi pguu"vq"eqpukfgt" vjg" wug"qh" E/X4Z"vgejppnqi {"cu" c" o gcpu"vq y ctf"vjcv"gpff<sup>478</sup>

; ;0<sup>4</sup> Cu"fkuewuugf"kp"vjg"5.9 GHz NPRM." y g"uggm"vq"rtqxfkg"vjg" o quv"urgetvcnn {"ghhkekgpv" o gcpu"qh"gpwutkpi"vjg"cxckncdknk {"qh"KVU<sup>479</sup> I kxgp"vjcv" FUTE"cpf" E/X4Z"ctg"vgejpkecn {"kpeq o rcvkdng" y kvj" gcej"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"urgetwo"cu" y gmm"cu" o czk o k|kpi"vjg"uchgv {"dgpghkvu"KVU" ecp"fgkxgt"vq"vjg" C o gtkcep"rwdnke<sup>480</sup> Cu"kp"4225" y jgp"vjg"Eq o o kuukqp"urgekkgf" c"ukp i ng"vgejppnqi kecn" uvpcfctf."cpf"cu"vjg"Eq o o kuukqp"tgkytcvgf"kp"vjg"5.9 GHz NPRM." y g"eqpvkpwg"vq"dgngkxg"vjcv" c"ukp i ng" uvpcfctf" hqt"KVU"kp"vjku" dcpf"ku" o quv"nkmgm {"vq"rtq o qvg"kpvtqrgtcdknk {"dgv y ggp" xg j kengu"cpf" kphtcuvtwewtgp"kp"vjg" Wpkvgf"Uvcvgu." gpcdng"tqdww"cwvq o qvkg"uchgv {"eq o o wpkecvkqpu."cpf" ceengtcvg"vjg" pcvkqpykfg"fgrrnq { o gpv"qh"KVU"cr rnkcevkqpu" y jkng"tgfwepk" k o rng o gpvcvkqp"equvu<sup>47</sup> Uchgv {"tgnvcvgf" cr rnkcevkqpu."uwej"cu"eqmmkukqp/cxqkfcpeg"hwpevkqpu." o wuv"dg"ojgctfod {"xgjkengu" wukpi"KVU."cpf"j cxkpi" c" ukp i ng"vgejppnqi kecn"uvpcfctf" y kmm"gpwutg"vjcv"cnm"uwej" gswkr r g f" xg j kengu" y kmm"j cxg"eq o rcvkdng"

<sup>472</sup> 5.9 GHz NPRM."56"HEE" Tef"cv"34837."rctcl"4:0"

<sup>473</sup> 5.9 GHz NPRM."56"HEE" Tef"cv"34837."rctcl"4:0"

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

<sup>475</sup> See, e.g.."7 ICC"Eq o o gpvu"cv":0"

<sup>476</sup> 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 gpvu<sup>0</sup>

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

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

<sup>479</sup> 5.9 GHz NPRM."56"HEE" Tef"cv"34837."rctcl"4:0"

<sup>47</sup> 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" Pqll"; :/;7."Tgrqvt"cpf" Qtfgt."3;"HEE" Tef"467:."4688/8:."rctcul"35/38"4225="5.9 GHz NPRM."56"HEE" Tef"cv"34826."rctcl"50"



vgejppnqi {=47:"urgek{kp i"qpn{ "qpg"vgejppnqi { "cu"vjg"uvcpfctf" yknn"tg o qxg"cp { "vgejppnqi kecn" eq o rcvdknk{ "tkum"cpf"ngcf"vq" c" o qtg"uchg."ugewtg."cpf"vtwuv y qtvj { "xgjkewnct"uchgv { "gequ { uvg o 0"} Ceeqtfkpin { .cnvjqwi j"uq o g"eq o o gpvgtu"tsgwgv"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" c n u q" d g n k g x g" k v" 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 a 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" e q p u k f g t" c" x c t k g v { " 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" 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" q d u g t x g" 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 kvvg f" kp" GV" Fqemg v 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 jkng" cf fkvkqpcn" vguvki" ku" eqpfwvrg" f" gzc o kpkpi" vjg" rgtqt o cpeg" qh" E/X4Z" 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 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 q p" 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 1 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 gpvu" cv" 35/36\* qpg" uvtqi" gequ { uvg o "ku" dgwgt" vjcv" y y q" y gcmgpg f" gequ { uvg o u + 0}

484: See, e.g., "Ekueq" Eq o o gpvu" cv" 35/36\* rtqxfkpi" c" engct" vgejppnqi { "rcvj" yknn" 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 p q h" U v c v g" J k i j y c f { " 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" 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" 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 gpvu" cv" 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 ggpv"rqnkkgu"vq"etgcvg"c"rcvj" hqt"E/X4Z" Fktgev"fgnrq{ 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"fggekukq"qp"vjg"tgeqtf"dghqtg"wu"cpf"vjg"urgetvo"tgcnkvgu"vjcv"gzku"vqfc{0" Vjg"tgeqtf"rtgugpvu" o wvkrng"ncevqtu"vjcv"ujcrg"qwt"xkgy0" Cfxqecvgu" hqt"E/X4Z"enck o"vjcv"vjgtg"ctg" ugxgtcn" dpgghkv"vjcv"guvcdnkuj" E/X4Z"ku"vjg"dgvgte"ejkqeg"cv"jku"vk o g0"7 ICC"enck o"vjcv" E/X4Z" Fktgev" vgejppnqi { "qwrgrtqt o u" FUTE"qp"tgnkcdnk{ ".tcp i g"cpf"tgunkgpeg"vq"kpvgthgtgpeg". "y jke j"kp"vwtp"y knn" jgnr" k o rtxg"pqp/hkpg/qh/ukvg"ecrcdknkvgu"vq"rtq o qvg"uchgv{ "dgpghkv0489" Hwtv jgt."7 ICC"cuugt"vjcv"fwtkpi" vk o gu"qh"rcem"eqpi"guvqkq." E/X4Z"hwpevkqpcnk{ "ecp"qhnhqcf"nguu"vk o g/etkvecn"X4X."X4k."cpf"X4R"\*xg jkeng/ vq/rgfguvtkcp"-eq o o wpkecvkqpu"vq"vjg"egmwnct"pgvy qtm."vjwu"uwr rqtvkpi"uchgv{/etkvecn"eq o o wpkecvkqpu048:" 7 ICC"cpf"Swneq o o"eqpvgp"vjcv" E/X4Z"ku"dgvgte" hqt"cejkgxkpi"pgvy qtm"ghhgevu"kpqhct"cu"equv" ghhkkgpeku"uwr rqtv"fgnrq{ o gpv"qp"c" o qtg"ceengtcvgf"dcuku048:" 7 ICC" hwtv jgt"uvcv"vjcv"pgy" xg jkengu" pqy" i ppgtcn{ "ctg"gswkr"rgf"ykvj" E/X4Z"pgvy qtm" o qfg"ejkrugv."492"cpf"kv"cpf"Swneq o o"cuugt"vjcv" E/ X4Z"vgejppnqi { "ecp"ngxgtc i g"egmwnct"pgvy qtm"cpf"vjgtdf{ "tgfweg"vjg"kphtcuvtwewwtg"equv"cuuqecvgf" ykvj"fgnrq{ kpi"X4Z0493"7 ICC"cpf"Ekueq"cuuq"pqvg"vjcv"dgecwug" E/X4Z"qrgtcvgu"qp"dqj"42"cpf"32" o g i c j g t v | "e j c p p g n u" k v" e q w n f" u w r r q t v" v j t q w i j r w v" v j t q w i j q w v" v j g" 52" o g i c j g t v | " q h" u r g e t v o" v j c v" y q w n f" d g" c x c k n c d n g 0494"

3260A Cfxqecvgu" hqt" FUTE."kp"vwtp."cuugt"vjcv"kv" o c{ "jcxg"egtvcck"cfxcpcv i gu"qxgt" E/X4Z0495" Hqt"gzc o rng." o cp{ "uvcv" FQV"ci gpeku"gzrtguu"c"rtghgtgpeg" hqt" FUTE"qxgt" E/X4Z"dgecwug"vjg{ "ctg" eqpegtgpf"cdqvw"rqvqpkcn"pg i cvkxg"k o rcevu"qp"ewtgpv" FUTE"kpucmncvkqpu"cpf"qrgtcvkqpu"cpf"vjg" tguqwtg"vjcv"y qwnf"dg"tgswtgf"vq"tgfguki"p"vjg"KVU"u{ uvgo 0496"kp"cf fkvkqp."PZR"uvcv"vjcv"tgegpv"vguv" tguwnvu"fq"pqv"fg o qpuvtcvg"engct"cfxcpcv i gu"qh" E/X4Z"qxgt" FUTE"cpf"dgngxgu"vjcv"vcmkpi"vjg"dcpf"cy c{ " htq o" FUTE"y qwnf"dg"ci ckpu"vjg"rtkpekrng"qh"vgejppnqi { "pgwvtcnk{ 0497"Ugxgtcn"eq o o gpvgtu"cuuq"gzrtguu" eqpegt"vjcv" E/X4Z"ku"c"pgy" xg jkewnt"vgejppnqi { "vjcv"ku"wpvguvf"cpf" wpr tqxgp"eq o rctgf"vq" FUTE." y jke j"ku"c" o cvwtg"u{ uvgo" tgc f{ "hqt" o cuu"fgnrq{ o gpv0498" PZR"qdugt"vjcv"y qtnf"y kfg"tqm/qwv"qh" FUTE" vgejppnqi { "ceengtcvgf"kp"423;"-pqvkpi"vjcv"kp"Gwtqrg."cnn"xgtukqpu"qh"vjg"pgy" Xqnmuy c i gp" I qnh" o qfgn" : "

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"Ncpf" 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" Ceeqf kpi"vq"7 ICC."Ej kpgug"tg i wncvqtu"cmqecvgf"urgetvo" o" hqt" E/X4Z"kp"423:"cpf" o clqt"cwq o cmgtu"y knn"fgnrq{ "E/X4Z/gpcdnf" xg jkengu"kp" E j k p c" p g z v" { g c t e" v j g" G w t q r g e p" W p k q p" t g l e e v g f" F U T E" c u" v j g" r t g h t g t f" K V U" v g e j p p n q i { " k p" 423; " c p f" k u" p q y" g z r n q t k p i" c p" c r r t q c e j" v j c v" y q w n f" e t g c v g" c" r c v j" h q t" E / X 4 Z" f g n r q { o g p v" k p" G w t q r g 0" 7 I C C" E q o o g p v u" c v" 430" I n q d c n" c w v q o q v k x g" o c p w h c e w t g t u" c t g" e n t g c f" { " o c m k p i" f g n r q { o g p v" r n c p u" d c u g f" q p" c f q r v k q p" q h" E / X 4 Z." c e e q t f k p i" v q" 7 I C C 0" I d."

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" gpcdnf"egmwnct"eq o o wpkecvkqpu" fktgevn{ ". ykvj qwv"eqppgevkpi"vq"cp{ "egmwnct"pgvy qtm"cpf"y kvj qwv"tgswtkpi"cp{ "pgvy qtm"ugtckeg"uwduetkrvkqp+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{ "Eqcnkq"Eq o o gpvu"cv" : /350"

496" See, e.g.. "Ekv{ "qh" Htgg o qpv"Eq o o gpvu="Oceq o d"Eqwv{ "Fgrctv o gpv"qh" Tqcfu"Eq o o gpvu="VgppU o ctv" Eq o o gpvu="Ngvgt"htq o" I t g i q t { "L0" Fwpp."Eqwvgn" hqt" P Y" W0U0"55"Eqttkfat"Eqwpekn"qh" I qxgtp o gpvu."vq" Octnggp" J" Fqtvej."Ugetgvct{ ".HEE."GV" Fqemg" Pq0"3;/35:"cv"3" \*hngf" Pqx0"34."4242+0"

497" PZR" Tgrn{ "cv"40"

498" Pgy" [ qtm"Ekv{ "Eq o o gpvu"cv"3/4="see"Kpvgnk i gpv"Vtcpu rqtvcvkq"Uqekv{ "qh" Okejk i cp"Eq o o gpvu"cv"4/50"



ctg"gswwrgf"ykvj" FUTE"vgejppnqi {"cpf"vjcv"tqcf"qrgtcvqtu"ctg"tqmkpi"qww" FUTE"cetquu"ugxgtcn" eqwvptkgu<sup>499</sup>"Hwtvjgt."PZR"qrkpgu"vjcv"dgecwug"E/X4Z"ku"dcugf"qp"encuuke"6I"NVG."kv"ku"oqnf" vgejppnqi {"06<sup>49</sup>:"

3270<sup>A</sup> 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" {"gctu<sup>0</sup>" Y jkng"gej"vgejppnqi {"jcu"vjg"ecrdknkv {"qh"rtqxfkpi"uchgv{/tgnvcgf"KVU"ugtxkegu."y g"ctg" rgtuwcfgf"vjcv"E/X4Z."vjtqwi j"kvu"cdknkv {"vq"cejkxg"i tgcvt"pgv y qtm"ghgevu"cpf"ngxgtc i g"egmwncn" pgy y qtmu"vq"tgfweg"kphtcuwtwevtg"equvu."rtq"okugu"c" o qtg"ghhkegpn"cpf"ghgevcxg"wg"qh"vjg"urgetw o <sup>0</sup>" Y g" fq"pqv"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"tgc f {"kpi"vjgk"cxckncdnkv {"hqt"wug.<sup>49</sup>:"cpf" o cp {"uvvcgu"ctg"cntgcf {"fgnrq {"kpi"E/X4Z" qt"fwcn/ o qfg"gswwr"ogpv<sup>0</sup>" 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 qvixg"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 <sup>0</sup>

3280<sup>A</sup> 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"eqppgevkvxkv {"ku"pqv"etkvecn"vq"rvgpvkcn"cwvq" o qvixg"uchgv {"dgpghkvu<sup>0</sup>"D {" tgfwekpi"vjg"KVU"dcpf."hwwvtg"KVU"fgnrq {"ogpv"ecp"dg"hgewugf"qp"fgnrq {"kpi"etkvecn"xgjkewnc"uchgv {" cr"rnkecvkqpu"cpf"vcmg"kvu"rqukvkq"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"rgqrng<sup>0</sup>" Y g"cuq"tglev"vjg"tsgwuvu"d {"xctkquw"nqecn"gpvkvku." uvvcg"fgrcvt"ogpvu"qh"vtcpurqtvckqp."cpf"qvjgtu."cti"wkpi"vjcv"vjg"Eq" o o kuukqpu"ujqwnf"eqpvkpwg"vq"eqpfwev" vguvkpi"kp"eqqtfkpcvkq"y kvj"vjg"W0U0" FQV."dqvj" y kvj"E/X4Z"cpf" FUTE"vgejppnqi {"vq"hwmm {"wpfgtucpf" vjg"qrgtcvkqpcn"ko rcevu"qh"vjgug"ugtxkegu"vq"gej"qvjgt<sup>4:2</sup>" 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 {"gctu<sup>0</sup>"Hwtvjgt"fgnc {"y kmm"pqv"ugtxg" vjg"C" o gkcep"rwdnke<sup>0</sup>"Tcvjgt."kv"ku"dguv"vq" o qxg"ht y ctf"y kvj"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<sup>0</sup>" Cwwq" o qvixg"uvcmg"jqnfgtu"jcxg"jcf"c" o rng"vk"o g"vq"gxncwcvg"vjg"xctkquw"vgejppnqi"kgu"cpf" o cmg"vjgk"ecug"cu" vq"vjg"dgvygt"cr"rtqcej<sup>0</sup>"Dcugf"qp"vjg"tgeqtf"dgqhtg"wu."y g"dgngxg"vjcv"qrvkpi"vq"rgt"okv"cu"ukp"ing" vgejppnqi {" o E/X4Z" o kp"vjg"tgxkugf"dcpf"rncp"dguv"ugtxgu"vjg"C" o gkcep"rwdnke<sup>0</sup>

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

3290<sup>A</sup> Kp"rtqrqkpi"vq"cwvjgtk|g"E/X4Z"qrgtcvkqpu"kp" o quv"qt"cmn"qh"vjg"52"ogicjgtv|"qh" urgetw o "kp"vjg"pgy"KVU"dcpf"\*70; ; 7/70; 47" I J |+."y g"uqwi jv"eq" o o gpv"qp"rquukdng"vtcpukvq"rcvju"ht" KVU"nkegpuggu"wkpi" FUTE/dcugf"vgejppnqi {"kp"uq"o g"qt"cmn"qh"vjg"gzkuvkpi"70;" I J |"dcpf<sup>4:3</sup>" Y g"uqwi jv" wr/vq/fcvg"kpht"o cvkq"qp"cevwcn" FUTE"qrgtcvkqpu"\*g<sup>0</sup>i<sup>0</sup>"kphqt" o cvkq"qp"vjg"qp/dqctf"wpkvu"cpf"tqcfukfg" wkvu"fgnrq {"gf+."pqvkpi"vjcv" FUTE"fgnrq {"ogpv"jcf"dggn"nk"okvgf"cpf"vjcv" o cp {"FUTE"qrgtcvkqpu" cr"rgctgf"vq"dg"fg" o qpvtcvkq"qt"rknqv"rtqlgevu<sup>4:4</sup>" Y g"kpswktgf"i gpgtcnn {"cdqvw"rquukdng"vtcpukvq"rcvju"vq" E/X4Z/dcugf"uqnwvkqpu<sup>4:5</sup>"Vq"hcenkvvcg"vjg"vtcpukvq"qh"gzkuvkpi"KVU"nkegpuggu."y g"rtqrqugf"vq" o qfkh {" gzkuvkpi"nkegpugu"vq"cmnqy"qrgtcvkq"qh"E/X4Z"cpf"kpkvvgf"eq" o o gpv"qp"jqy"vjku"y qwnf"chgevt"ewttgpn"

<sup>499</sup>"PZR"Eq" o o gpv" Cwcej" o gpv"cv"5/60"

<sup>49</sup>:"PZR"Eq" o o gpv" Cwcej" o gpv"cv"60"

<sup>49</sup>:"See, e.g.."Rcpucqpk"Eq" o o gpv="Dquej"Eq" o o gpv"cv"50"

<sup>4:2</sup>"See, e.g.."W0U0" FQV" Tgrn {"cv"80"

<sup>4:3</sup>"5.9 GHz PRT0."56"HEE"Tef"cv"34838/39."rctc<sup>0</sup>"540"

<sup>4:4</sup>"5.9 GHz NPRM."56"HEE"Tef"cv"34839/3:."rctcu<sup>0</sup>"55."570"

<sup>4:5</sup>"5.9 GHz NPRM."56"HEE"Tef"cv"34839."rctc<sup>0</sup>"550"

nkegpuggu" y kvj "qr gtcvkqpcn" ukvgu<sup>4:6</sup>" Y g" cnuq" kpswktgf" cdqww" cp{ "ng i cn" eqpukfgtcvkqpu" tgnckpi "vq" vjg" vtcupukvqp<sup>4:7</sup>" Vjgug" kpenwfgf" j qy" nqi "vq" cnuq y" gzkvki "nkegpuggu" vq" eqpvkpwg" FUTE/dcugf" qr gtcvkqpu" \*g<sup>0</sup> i 0. "tqc fukfg" kphctvutwewtg" qt" qp/dqctf" wkvu+. "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 <sup>4:8</sup> " 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 p q h " F U T E " q r g t c v k q p u " v q " E / X 4 Z <sup>4:9</sup> " 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 <sup>4:10</sup> " " "

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 <sup>0</sup> " 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 <sup>0</sup> " 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 <sup>0</sup> " 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 <sup>0</sup> " " "

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 <sup>0</sup> " 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 . <sup>4:11</sup> " 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 <sup>0</sup> " " 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 <sup>0</sup> " " 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 <sup>0</sup> " " 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 <sup>0</sup> " " 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 <sup>0</sup> " " "

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 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 <sup>0</sup> : <sup>2</sup> " " 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"Tel"cv"34839."rctc"0"560"

4:7\* 5.9 GHz NPRM. "56"HEE"Tel"cv"34839."rctc"0"560"

4:8\* 5.9 GHz NPRM. "56"HEE"Tel"cv"34839."rctc"0"580"

4:9\* 5.9 GHz NPRM. "56"HEE"Tel"cv"34839."rctc"0"55."34839."rctc"0"580"

4:10\* 5.9 GHz NPRM. "56"HEE"Tel"cv"34839."rctc"0"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 n d g " v j t q w i j " e q q t f k p c v k q 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 <sup>0</sup> " " 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 e v k q p u " E q w p u g n . " H q t f " O q 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 e 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"0"560"

cfqrv"twngu"fgukipcvkpi"E/X4Z"vgejppnqi{"cu"vjg"KVU"fgnxgt{"u{uvgo"qpeg"vjg"Eqo o kuukqp"cfqrvc"fgcfnkpg"cpf"vjg"vtcpukvkqp"vq"vjg"tgxkugf"KVU"dcpf"ku"eqo rnvgo"Qwt"fggekukqp"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" vtcupukvkqp"vq"E/X4Z"vgejppnqi{"0"HWvtjgt o qtg."y g"cpvkekrcvg"vjcv"uqog" FUTE/dcugf"KVU"nkegpuggu"oc{" ykuj"vq"qrgtcvg"E/X4Z/dcugf"KVU"kp"vjg"70: ;7/70;47" I J |"KVU"dcpf."cpf"y g"y kmn"cmny"vjgo"vq"fq"uq"cv" cp{"vkog"vj"tqwi"j"vjg"UVC."gzrgtkogpvcn"nkegpukpi"qt"qvjgt"gzkukpi"tgiwncvqt{"rtqeguugu."4:3"qp"cpq/ kpvghgtgpeg"dcuku"wrqp"rtqrgt"ujqykp"i"0"Vjku"hgzkdnq."ecug/d{/ecug"cr r t q c e 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"rtqrqugf"vq"tgvcvkp"htq"nkegpuggu"wkup"i"E/X4Z"vgejppnqi{"vjg" gzkuvkpi"eqqf"fkpcvkqp"twngu"vjcv"ewttgpn{"cr rn{"vq" FUTE" TUWu."kpenwfkpi"eqo rnkcepg"y kvj"gzkuvkpi" 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" gzkuvkpi" 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;"urgekhhgf"hgfgtcn"tc fct n"nqecvkqpu"o wuv"dg"eqqf"fkpcvkqp"y kvj" 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/mknq o g v g t" e q q t" f k p c v k q 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" 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 kvj"hgfgtcn" qrgtcvkqpu"4:7" Y g"uqwi"jv"eqo o gpv"qp"vjku"rtqrqucn"0"

3340A PVKC."vjg"qpn{"eqo o gpvkpi" rctv{"ci"tggu"y kvj"vjg"Eqo o kuukqp"vjcv"tgswtkpi"KVU" TUWu" vq"eqqf"fkpcvkqp"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 q p" ; 20593\*d+ "qh"vjg"Eqo o kuukqpu"twngu"htq" FUTE" TUWu"ecp"gswnn{"cr rn{"vq"E/X4Z" TUWu"0" J q y g x g t."vq"qrvk 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 q 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"kiping"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 q 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 q 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"mknq 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 q 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" u" U g r v"0":.4242"ngvgt"vq"vjg" E j k g h" q h" v j g" H E E" u" 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"Ukpeg"wpfgt"gzkuvkpi"twngu."PVKC"oc{"c"vwjqtg"lg"cf"fkvkqpcn"hgfgtcn" t c f k q n q e c v k q 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{"vq" c o g p f." o q f k h{"."qt"tgxqmg"uwej"cuukipogpvu"4:11"v"vjcv"eqwnf"chhgev"vjg"eqqf"fkpcvkqp" | 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 q p" ; 20593\*d+"dg"tgxkugf"cu"hqmqy u"0" o i" Q r g t c v k q 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."vq"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:"gzkuvkpi"gzrgtkogpvcn"nkegpugu"cwvjqtk|kpi"vjg"qrgtcvkqp"qh"E/X4Z"0"HEE" Wpkxgtucn"Nkegpukpi"U{uvgo."Ugrvgo"dg"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 kuukqpu"0" Cp{"fgxkcvkqp"htq o"vjqug"rctc o gvgtu"oc{"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 kpkvctcvkqp00<sup>522n</sup>

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"hkpf"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 tgcvtg"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<sup>523m</sup> " 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 0<sup>524n</sup>

3380A Relocating DSRC to the upper 30 megahertz. Yg"hkpf"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<sup>525m</sup> " 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<sup>526m</sup> " 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<sup>527m</sup> " 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 " c " 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{"cdqxcg."vjku" o qfkhkecvkqp"ku" o cpkhguvn{"kp"vjg"rwdnke"kpvtgtguv<sup>528m</sup>" 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<sup>529m</sup> " 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 " 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 "

<sup>522n</sup> See PVKC"Ugrw0": .4242"Ngwgt"cv"50"

<sup>523m</sup> Yg"uqv"i jv"eq o o gpv"qp"vjgug"uvcvwvt{"eqpukfgtcvkqpu"kp"vjg"5.9 GHz NPRM" See 5.9 GHz NPRM."56"HEE"TeF"cv"34839."rctcl"560"

<sup>524m</sup> 69"EHT"È"; 2059; =; see also PEVC"Eq o o gpvu"cv"33"pqvkpi"vjcv"0]vjg"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"

<sup>525m</sup> 69"WOUE0"È"5380

<sup>526m</sup> 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 tcvu"vjg"Eq o o kuukqp"dtqcf"rqygt"vq" o qfkh{"nkegpugu00+0"

<sup>527n</sup> See, e.g., MCI Telecommunications Corp. v. AT&T,"734"WO00"43:."44:.\*3; ; 6+\*jqnfkpi"vjcv"uvcvwvt{"0cvwj qtkv{"vq"o qfkh{"0"fqgu"pqv"eqpv"o rncvg"hwppfc o gpvcn"ejcpigu0+="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"cdknkv{"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 "

<sup>528m</sup> See Ugevkqp"KKK0C04."suprad0"

<sup>529m</sup> See, e.g., "PEVC"Pqx0"32."4242"Ex Parte cv"4/5"pqvkpi"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"rwdnke"kpvtgguv<sup>52:</sup>"

33:0A Vjcv"ngcxgu"qpn{"vjg"swgukqp"y jgvjgt"tgnqecvki"KVU"qrgtcvqpu"vq"vjg"wr rgt"52"
ogicjgtv|"eqpukvwwgu"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"ogpvt<sup>52:</sup>"Yg"fkucitggö" Cnvjqwi j"
ghhgevkxgn{"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"o"qfkhkecvkqp"vq"vjcv"nkegpug"ku"pqv"c"hwffc"ogpvcn"ejcpig<sup>52:</sup>"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 knn"pqv"ogcckpi"hwvn{"kpvthgtg"ykvj"vjg"cdknkv{"qh"
kpew"odgpv"vq"rtqxfkg"vjg"uc"og"v{"rgu"qh"uchgv{/tgnvcvgf"ugtxkegu"vjcv"vjg{"ctg"ewttgpvn{"qhhgtkpi<sup>533:</sup>"Kpfggf."
vjku"52"ogicjgtv|"y knn"cee"o"oqfcvg"dcuke"KVU"ugtxkegu"ht"pqv"qpn{"vjg"nk"okvgf"pw"odgt"qh"vgj"kgu"
ewttgpvn{"gswkr rgt"ykvj"FU TE"cu"ewttgpvn{"cmmqyg"ht"wpfgt"vjg"Eq"o"okuukqpö"twngu" \*göiö."egtvcip"hggyv"
xgjkgu."y jkej"ctg"oquvn{"kpxqnxgf"kp"rknqv"rtqlgevu."dvw"cnuc"cf fkvkqpcn"eq"o"gteken"vgjkgu" \*göiö."hggyv"
xgjkgu."vtwemu."ectu"vjcv"oki jv"kpqtrqtcvg"FU TE/dcugf"gswwkr"ogpvt"cpf"vjcv"eqwnf"dgeq"og"cxckndng"ht"
C"ogtkecp"eqpuw"ogtu"qp"c"y kfgt"dcuku"cetquu"vjg"eqwvvt{"kp"vjg"hwvwtg"ö"pqv"ykvj"uvcpfki"ewttgpv"vtgpfu"d{"
ocp{"o"cpwchcewvtgu"ht"kpvtqfwewkqp"qh"vjg"pgygt"E/X4Z"vgej pqqni {"<sup>534:</sup>

33:0A Yjcv"ku"o qtg."vjg"vtcpukvqp"rcvj"kp"vjku"qtfgt"ku"fguki"pgf"vq"ceeq"o"oqfcvg"c"vtcpukvqp"
vjcv"okpk"okl"gu"cp{"rvgpvkcn"fkutwrvkqp"vq"FU TE"qrgtcvqpu"First."kv"ku"vgej pkecmm{"hgucndngö"Cu"
fguetkdg"cdqyg."y g"hkpf"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"fguki"pvcg"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"cmny"ewttgpv"KVU"
nkegpuggu"wkpi"FU TE"vq"qrgtcvg"kp"vjg"vjtg"cf lcegpv"ejcppgmu"kp"vjg"tgxkugf"dcpf"rncp<sup>535:</sup>"Second."vq"
okpk"okl"gu"cp{"fktwrvkqp."y g"rtqxfkg"c"tgcupcdng"vk"og"ht"cp{"vtcpukvqp"cevkvkvguö"Yg"y knn"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-"\*hkp fki"vjcv"ö]\_jg"Eq"o"okuukqp"jcu"nqi"tgnkgf"qp"ugevqp"538"
vq"ejcpig"qt"tgfweg"vjg"htgswpkegu"wguf"d{"c"nkegpugf"ugtxkeg"y jgtg"kv"jcu"hwvwtg"vjcv"fqkpi"uq"yqwnf"ugtxg"vjg"
rwdnke"kpvtgguvö"cpf"fguetkdkpi"gzc"o"rngu"qh"uwej"Eq"o"okuukqp"cevqp+ö

52:"See Ngwgt"htq"o"Uvgxgp" Iö"Dtcf dwt{"I gpgtca"Eqwvpu."Fgrvö"qh"Vtcpu rqtvcvqp"vq"Vjg"J pqtcdng"Clkv"Rck."
Ejckt"ocp."HEE."GV"Eqemgv"pö3;/35:."Cf fgpw"o"cv"36" \*hngf"pöxö;."4242+"\*öVjg"nquu"qh"67"O J|"qh"KVU"
urgewt"o"tgrtgupvu"c"hwffc"ogpvcn"ejcpig."ukpeg"kv"y knn"tguvvn"kp"c"uki"pkhkecpv"ejcpig"kp"vjg"qxgtcmm"vknkv{"qh"vjg"
dcpf"htq"o"kvu"nqi"guwcdku jgf"wgöö:"\*hngf"wpfgt"PVKc+"Cmncpeg"ht"Cwvq"o"qvkxg"Kppqxcvqp"Eq"o"ogpvt"cv"4."55/58"
\*vjg"HEE"ncemu"cwv jqtqv{"vq"cfqrv"cpf"ö"o"rng"ogpvt"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"cpf"534"qh"vjg"
Eq"o"wpkecvkqp"cevö"See also, e.g."C"ogtkecp"Cuqekcvkqp"qh"Uvcvg"Jki jyc{"cpf"Vtcpu rqtvcvqp"Qhhkecnu"
Eq"o"ogpvt"cv"5/6."33."37="Pcvkqpcn"Uejqqn"Vtcpu rqtvcvqp"Cuqqel"Eq"o"ogpvt"cv"4/5="Q"o"pkCkt"Eq"o"ogpvt"cv"3="
VgppUOCTV"Eq"o"ogpvt"cv"3="Vq{qvc"Eq"o"ogpvt"cv"9/:="WU"VC I"Eq"o"ogpvt"cv"6."34="FU TE"Cwvq"Uchgv{"Eqcnkvqp"
Eq"o"ogpvt"cv"kk="Ect"4"Ect"Eq"o"ogpvt"cv"4ö

532"See, e.g., Cmty Television."438"Hö5f"cv"3358."3362/63"\*hkp fki"vjcv"vjg"Eq"o"okuukqpö"cevqp"y knn"pqv"ghhge"v"c"
ohwffc"ogpvcn"ejcpigö"y jgtg"chhgevgf"nkegpuggu"eqwnf"ödg"ikp"cpf"gpf"vjg"vtcpukvqp"rgtkqf"dtqcfecuvkpi"vngxkukqp"
rtqitc"o"okpi"vq"vjg"rwdnke"wpfgt"xgt{"uk"oknct"vgt"o"uö"cpf"eqwnf"örtqxfkg"guogpvkcmm{"vjg"uc"og"ugtxkegu."ykvj"uq"og"
hngzkdknkv{"vq"rtqxfkg"cpkmmct{"ugtxkegu"cu"y gnn."wpfgt"vjgkt"nkegpugu"fwtkpi"vjg"vtcpukvqpö+ö

533"See, e.g." PEVC"Pöxö"32."4242"Ex Parte"cv"3/:"\*pqvki"vjcv"kpew"odgpv"nkegpuggu"y knn"dg"cdng"vq"eqpvkpwg"vjgkt"
ewttgpv"qrgtcvqpu"cpf"itqy"vjqug"qrgtcvqpu"chvg"vjg"o"qxg"vq"vjg"wr rgt"52"ogicjgtv|"cpf"vjcv"ugevqp"538"fqgu"pqv"
tgsuktg"vjg"Eq"o"okuukqp"vq"tgugtxg"urgewt"o"ht"urgewncvkg"hwvwtg"ugtxkegu+ö

534"See PEVC"Pöxö"32"Ex Parte"cv"5"\*pqvki"vjcv"gzukvki"FU TE"önkkegpuggu"y knn"dg"cdng"vq"gzrcpf"vjgkt"qrgtcvqpu"vq"
pgy"UW"nqecvqpu"cpf"o"cp{"o"qtg"xgjkgu"ecr"cdng"qh"tgegxkpi"vjgkt"FU TE"vtcpu"okuukqp"kp"c"52/ogicjgtv|"dcpf."
cnvjqwi j"vjg"cwvq"o"qvkxg"o"ctmgvöu"ujkhv"yc{"htq"o"FU TE"o"cmgu"uwej"itqy"vjg"wpnkmm{"öö+ö

535"See PEVC"Pöxö"32"Ex Parte"cv"5"\*cuugtkpi"vjcv"övjg"tgeqtf"uwr rqtvu"vjg"Eq"o"okuukqpö"eqpenwukqp"vjcv"gzukvki"
nkegpuggu"y knn"dg"cdng"vq"tg"ejcppgk|g"vjgkt"qrgtcvqpu"xlk"ht"o"yctg"cpflqt"uqhv"yctg"wr itcfguö+ö



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 c e 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-V2X " 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 w 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. " 4 9 7 " H 0 5 f " c v " : 6 0 "

539" See, e.g., PEVC " P q x 0 " 3 2 " E x P a r t e " c v " 5 / 8 " \* g z r n c k p k p i " v j g " n c e m " q h " p c v k q p y k f g " f g 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. " 7 5 " H 0 5 f " 3 5 2 ; . 3 5 3 ; / 4 2 " \* F 0 E 0 " E k t 0 " 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 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 "rwtuwcpv"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"eqpukuvp 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 u v 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" W0U0E0E" 525\* 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" 69" W0U0E0E" 5340"

544" See PEVC" P q x 0 " 3 2" Ex Parte" 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" 69" W0U0E0E" 523\* 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"ftgvegf"vjg"Eq o o kuukqp"vq"eq o rngvg"ctwng o cmkpi"qp"KVU"urgetw o "d{"Lcpwct{"3."4222."y jke j"kv"fkf054:"Vj cv"y cu"cnv"vj cv"Eqp i tguu"tgs wktgf"htq"vjg"Eq o o kuukqp"vq"ce jkgxg"kvu"ucvvtq{"f wvku0"D{"eqpvtcu."vjg"Eq o o wpkecvkqpu"Cev"i kxgu"vjg"Eq o o kuukqp"dtqcf"cwv j qtkv{"vq"gpwgt"vjg"ghhkekpv"uug"qh"urgetw o "kp"vjg"rwdnke"kpvtg054:"Eqpvtct{"vq"vjg"Cnnkpep"htq"Cwv q o qvkg"Kppqxcvkqp0"enck o u."vjg"Eq o o kuukqp0"fggekqp"vqfc{"ku"pqv"kp"eqphnkev"y kvj"cp{"tqng"cuuk i pgf"vq"kv"d{"Eqp i tguu."ppt"fqgu"vjg"cevkqp"y g"vcmg"vqfc{"kphkpi g"qp"QV0"cdknkv{"vq"eqpvkpwg"vq"cf o kpkuvgt"vjg"KVU"rtq i tc o 0"Vjg"cevkqp"y g"vcmg"qp"vjg"urgetw o "y g"fguk i pcvgf"htq"KVU"ku"fqpg"rwtuwcpr"vq"qwt"i gpgtcn"cwv j qtkv{"vq"cev"kp"vjg"rwdnke"kpvtg0"eqpxgkpgpeg"cpf"pgeguukv{"y jke j."cu"vjg"FOE0"Ektewk"j cu"gzrnckpgf."ku"vjg"uqtv"qh"urgetw o "o cpc i g o gpv"kuuwg"htq"y jke j"vjg"Eq o o kuukqp0"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{"vjg"W0U0"QV"cpf"qv j gt"vtpurqtvevkqp"uchgv{"gz rgtv."cf qrvkpi"qwt"rtqrqucn"vq"tgfweg"vjg"o qwpv"qh"KVU"urgetw o "kp"vjg"70;" I J | "dcpf"y qwnf"pqv"ucvkuh{"vjg"tgs wktg o gpvu"qh"ugevkp"3"qh"vjg"Eq o o wpkecvkqpu"Cev"cu"kv"tgncvgu"vq"vjg"Eq o o kuukqp0"tgu rqpukdnkv{"vq"o cpc i g"urgetw o "vq"gpwgt"uchgv{/qh/nkhg"cpf"rtqrgtv{"vj tqw i j"vjg"uug"qh"yktg"cpf"tcfkq"eq o o wpkecvkqpu0553"Y g"fkuc i tgg0"Vjg"tgeqtf"uj qy u"uk i pkhkecpv"uwr r qtv"htq"gpwtkp i"uchgv{"qh"nkhg"cpf"rtqrgtv{"vj tqw i j"vjg"uug"qh"KVU"kp"vjg"wr rgt"52"o g i c j gtv | "qh"vjg"dcpf."cnnq y kp i"wu"vq"tgrwtrqug"vjg"nq y gt"67"o g i c j gtv | "qh"vjg"dcpf"htq"wpnkegpugf"qr gtcvkqpu0"HWtv j gt o qtg."y g"fkuc i tgg"y kvj"KVU"C o gktec0"uw i i guvkqp"vj cv"ugevkp"3"qh"vjg"Eq o o wpkecvkqpu"Cev"dkpfu"vjg"Eq o o kuukqp"uq"vj cv"kv"o c{"qpn{"o qfkh{"70;" I J | "dcpf"nkegpugu"eqpukv"y kvj"W0U0"QV0"tgeq o o gpfcvkqpu0554"KVU"C o gktec"cr r gctv"q"hw pfc o gpvcn{"o kuw pfgtvcpf"vjg"tqng"Eqp i tguu"chhqtfgf"vjg"Eq o o kuukqp"vq"qxgtugp"pqp/hgfgtcn"uug"qh"urgetw o "kpenw fki"ucv"cpf"nqecn"i qxgtp o gpvcn"urgetw o "wug+."y j g v j gt"htq"rwdnke"uchgv{"qt"eq o o gtekn"rwr tqug0555"

E. Benefits and Costs: Economic Analysis

3470A Y g"jcxg"tgxkg y gf"vjg"dgpghkvu"qh"tgrwtrqukpi"vjg"nq y gt"67"o g i c j gtv | "qh"vjg"70;" I J | "dcpf"htq"wpnkegpugf"uug"cpf"vjg"ftggev"equu"cuuqekcvgf"y kvj"vtpukvkqkpi"gzkuvkpi"KVU"nkegpuggu"vq"vjg"wr rgt"52"o g i c j gtv | "qh"vjg"dcpf0"Vjg"gxkfgpeg"ngcfu"vq"vjg"eqpenwukqp"vj cv"vjg"dgpghkvu."kp"vgt o u"qh"pg y"geapp o ke"cevkxkv{"ctg"y gnn"cdqxs"vjg"equu0"Y g"gz rgev"vq"tgcnk | g"uudvcpvken"dgpghkvu"d{"gz rcpfkpi"Y k/Hk"ecrcekv{0"Gxgp"wukpi"c"jki jn{"eqpugtxcvkg"cr r tqcej"vq"ecnewncvg"dgpghkvu."y g"cpvkekr cvg"c"rtgugpv"xcnwg"qh"cr r tqzk o cvgn{"&8"dknkqp"kp"dgpghkvu"kp"gcej"qh"vjg" {gctu"4245/4247."qt"&3904"dknkqp"qxgt"vj cv"vk o g"htc o g0556"Y g"rtgugpv"vjg"o gv j qf qnq i {"cpf"uvgru"wpfgtn{kp i"vj ku"ecnewncvkqp"kp"Cr r gpfkz"E0"Y g"cnuq"pqvg"vj cv"wpnkegpugf"uug"qh"vjg"70;" I J | "dcpf"o c{"ngcf"vq"dgpghkvu"y gnn"dg{qpf"4247."y jke j"wpfgtueqtgu"vjg"eqpugtxcvkg"pcvwtg"qh"qwt"guvk o cvgu0"Cv"vjg"uc o g"vk o g."d{"rtgugtxkpi"vjg"wr rgt"52"o g i c j gtv | "htq"KVU."y g"ctg"rgt o kwkpi"ewttgpcpf"hwvwtg"nkegpuggu"vq"eqpvkpwg"vq"qhhtg"uwe j"ugtxkeg"kp"vjg"dcpf0"Y g"vj g tghqtg"vcmg"kpqv"eqpukf gtcvkqp"vjg"qpg/vk o g"vtpucevkqp"equu"cuuqekcvgf"y kvj"kpew o dgpv"nkegpuggu"vtpukvkqkpi"

549"Kpfggf."Ekueq"cf o kvu"vj cv"0kv"ku"vtwg"vjg"VGC\_"fkf"pqv"ecnn"qvw"vjg"70;" I J | "dcpf"qt"tgs wktg"cp{vjkpi"qv j gt"vj cp"ctwng o cmkpi"rtqeggfkpi"dg"eqpfwevgf06"Id."cv"p060"

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."TO / ; 2 ; 8."Tgrqtv"cpf"Qtfgt."36"HEE"TEf"3 : 443\*3 ; ; ; +\*1999 DSRC Allocation 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 gktec Eq o o gpvu"cv"kk/kkk."34/370"

554"KVU"C o gktec Eq o o gpvu"cv"kk/kkk."34/370"

555"69"W0U0E0E"3730"

556"Vj ku"urgekhekcvkqp"fkueqwpvu"dgpghkvu"d{"9" "gcej" {gct0"See"Qhheg"qh"Ocp i g o gpv"cpf"Dwf i gv."Ektewct"C/6."Regulatory Analysis."55"Ugrv0"39."4225+."jwru<llqdc o c y jkg i qwug<cte jkxgu0 i qx l q o dlektewctnac226ac/61q" %QOD" Ektewct"C/6:"&uvvcvpi"vj cv"ctgcn"fkueqwpv"tcvg"qh"9" "uj qwnf"dg"wugf"cu"c"dcug/ecug"htq"tg i wncvqt{"cpcn{uku+0"Kh"y g"kpvgcf"fkueqwpv"d{"5" ".vjg"rtgugpv"xcnwg"qh"dgpghkvu"qxgt"4245/4247"ku"&3 ; 05"dknkqp0"

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 .<sup>557</sup>" 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 .<sup>558</sup> " 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 { +<sup>559</sup> " 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 .<sup>55</sup> : " 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 o<sup>562</sup> " 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 u<sup>563</sup> " 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 o<sup>564</sup> " " Q v j g t " Y k / H k "

<sup>557</sup>"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 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 0 " 3 6 5 0 " P q t " f q " y g " t e e 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 0 " 3 6 2 0 "

<sup>558</sup>"N g w g t " h t q o " F k c p c " I g j n j c w u " E c t g y . " F q e v q t c n " H g m g 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 0 " 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 0 " 6 . " 4 2 3 ; + \* E C I Y . " g v " c n l " F g e l 0 " 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 "

<sup>559</sup>"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 "

<sup>55</sup>: " 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 e 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 "

<sup>55</sup>: " 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 "

<sup>562</sup>" 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 "

<sup>563</sup>" 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 "

<sup>564</sup>" E C I Y . " g v " c n l " F g e l 0 " 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"kpewfg"kvu"ko rqtvcpeg"vq"gfwevcvqp."ogfkekgp."uocvtv"ci tkewvwtg."cpf"kpfwvwt{0<sup>565</sup>"Eq o o gpvgtu"cuugtv"vjcv"dgpghkvu"htq o "tgrwtrqukpi"vjg"70;" I J |"dcpf"y qwnf"ctkug"htq o "vjg"kpetgcugf"Yk/Hk"ecrcekv{"cwgppcpv"ykvj"vjg"etgcvkqp"qh"cf fkvkqpcn"ejcppgnû kpenwfkpi"cp":2/ogicjgtv|"ejcppgn"cpf"382/ogicjgtv|"ejcppgn<sup>566</sup>

34:0A Coats<sup>567</sup>"Xctkqwu"eq o o gpvgtu"enck o "vjcv"vjg"equvu"qh"tgfwekpi"vjg"urgetvto"fgfkecvgf"hqt"KVU"uwduvcvkcnn{"qwwy gki j"vjg"dgpghkvu"qh"fgfkecvkp"67"ogicjgtv|"hqt"wpnkegpugf"qrgtcvkqpu<sup>568</sup>"Jqy gxtg."tcvjgt"vjcp"swcpvk{kp i"equvu"urgekhe"vq"vjg"tgfwekvqp"kp"KVU."o quv"eq o o gpvgtu"rqpkr"vq"vjg"geqp o ke"ko rcev"ecwvfg"df"cwvq o qdkng"eqnkukqpu"kp"ci itgi"cvg"vjg"tqwi j qww"vjg"Wpkvgf"Uvcvgu"gecj" {gct<sup>569</sup>"Eq o o gpvgtu"igpgtcnn{"tghgt"vq"W0U0" FQV guvk o cvgu"qh"vjg"geqp o ke"ko rcev"qh"nkxgu"nquv"cpf"kplwtkgu"tguvwnkpi"htq o "rqneg/tgrqvtvgf"Xgjkeng"etcujgu"kp"vjg"Wpkvgf"Uvcvgu<sup>567</sup> cu"y gnn"cu"qvjgt"uwvfkgu"cpf"uvcvkvkeu"vjcv"ygtg"pqv"KVU/urgekhe<sup>568</sup>"Uq o g"eq o o gpvgtu."j qy gxtg."tghgt"vq"KVU/urgekhe"cpca"ugu."kpenwfkpi"vq" Pcvkqpcn"Jki j y c {"Vtchhke"Uchgv {"Cf o kpkuvtcvkqp"\*P J VUC+"guvk o cvgu"qh"geqp o ke"equv"ucxkpi u"cuuqekcvgf"ykvj"X4X<sup>569</sup>"cpf"qvjgt"uwvfkgu<sup>566</sup>"

34:0A Eq o o gpvgtu"cnuq"ctiwg"vjcv"tgrwtrqukpi"KVU"urgetvto"y qwnf"ngcf"vq"equvu"cuuqekcvgf"ykvj"vtchhke"eqp i guvkqp."hwgn"eqpuw o rvkqp."cpf"cwvq"g o kuukqpu."dvw"kp"o quv"kpucvpegu."fq"pq"eqppgev"vjgug"equvu"vq"KVU<sup>566</sup>"Egtvckp"eq o o gpvgtu"tghgt"vq"cpwcn"vtchhke"tgfwekvqp"cpf"tgfwegf"ectdqp"fkqzkfg"

<sup>565</sup>"PEVC"Eq o o gpvu"cv"7="Qrgp"Vgejppnqi {"kpuvkvwvg"cpf"Rwdnke"Mpqyngfi g"Eq o o gpvu"cv"33/37="PEVC"Trgn {"cv"3/40"

<sup>566</sup>"F {pc o ke"Urgertvto" Cnnkcepg"Eq o o gpvu"cv"4/5="PEVC"Eq o o gpvu"cv"38/39="Qrgp"Vgejppnqi {"kpuvkvwvg"cpf"Rwdnke"Mpqyngfi g"Eq o o gpvu"cv"9."37."53="Y KURC"Eq o o gpvu"cv"5/6="Eq o o ecuv"Trgn {"cv"32/340"

<sup>567</sup>"Eq o o gpvgtu"ekvki" c" Pqxdgdt"42."423;" Ex Parte"kpewfg"C o gtecp"Cuqekcvkqp"qh"Uvcvg"Jki j y c {"cpf" Vtcurqvtcvkqp"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 {"Cnnkcepg"Eq o o gpvu"cv"7=" I Y VEC"Eq o o gpvu"cv"4=" J CVEK"cv"4=" J qpf c"Eq o o gpvu"cv"32="KGGG"382;" Y qtmkpi" 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="CCK"Trgn {"cv"36="Ft0" Tkejctf" Tq {"Trgn {"cv"50" See"Ngwgt"htq o "Gnckpg"N0"Ej cq."Ugetgvct {"W0U0" FQV."vq"Clkv"Rck."Ej ckt o cp."HEE"cv"3" \*hknfg" Pqx0"42."423; +."jwruclly y y0jki j y c {u0qti y r/ eqpvglwlrncqful423:134luge/ejqc/ngwgt/70:/33/42/3;0r fh"Eq o o gpvgtu"ekvki" W0U0" FQV"Trgn {"kpenwfg"CV ( V" Trgn {"cv"35/36="Eqpvkpgpvcn"Trgn {"cv"48="KVU" C o gtecp"Trgn {"cv"32="Vgzcu" FQV"Trgn {"cv"3/40" See" W0U0" FQV"Trgn {"cvcejkpi"Ngwgt"htq o "Uvgxgp" I 0" Dtcfdwt {" I gpgtcn"Eqwpu gn."W0U0" FQV."vq"Clkv"Rck."Ej ckt o cp."HEE."Uwr ring o gpvct {" Vgejpkcni"Eq o o gpvu"cv":0"

<sup>568</sup>"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="Xqnmuyci gp" Eq o o gpvu."Cwcej0"cv"7="Cfxqecvgu"htq"Jki j y c {" ("Cwvq"Uchgv {"cv"30"

<sup>569</sup>"CCK"Eq o o gpvu"cv"9="FUTE" Cwvq"Uchgv {"Cnnkcepg"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 gtecp"Eq o o gpvu"cv"47="P ZR"Ug o keqpfwvqtu"Eq o o gpvu."Cwcej0"cv"3="Rcpucqpkc"Eq o o gpvu"cv"8="CCK"Trgn {"cv":="KVU" C o gtecp"Trgn {"cv"32="VzFQV"Trgn {"cv"40"Vjg"PV JUC"cpca"uku"ku"rctv"qh" P J VUC0u"4239" X4X"PRTO0" See" W0U0" FQV."P J VUC."Hgfctn"Oqvt"Xgjkeng"Uchgv {"Uvcvfcfu="X4X"Eq o o wpkecvkqpu." : 4"Hgf0" Tgi0"5: 76" \*Lcpwct {"34."4239+."jwruclly y y0iqxlphq0iqxleqpvglwlrmiLHT/4239/23/34lr fh14238/5327;0r fh" \*P J VUC" X4X"PRTO+0"

<sup>56</sup>"CCK"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." Wpkxgtkv {"qh" Okejki cp" Vtcurqvtcvkqp" Tgucetj" kpuvkvwvg" Tgrqvt" \*Oct0"3."423: +."jwruclly y y0wvkvkw o ke j0gfwly jcv/ ygtg/fqkpi lpg yulequ/hcvcnkvgu/kplwtkgu/cpf/etcujgu/cuuqekcvgf/yckvki/fgrnq{/xgjkeng/xgjkeng" \*Wpkxgtkv {"qh" Okejki cp" X4X" Tgrqvt += "KGGG"382;" Y qtmkpi" I tqwr"Eq o o gpvu"cv":;="WU"VC I"Eq o o gpvu"cv": \*ekvki" L0" E j cpi" gv" cn0." Guvk o cvgf" Dgpghkvu"qh" Eqppgevgf" Xgjkeng" Cr rnkcvkqpu" F {pc o ke" Oqdknv {"Cr rnkcvkqpu." CGTKU." X4K" Uchgv {"cpf" Tqcf" Y gcvjgt" Ocpicig o gpv" Cr rnkcvkqpu." W0U0" FQV." KVU" Lqkpv" Rtq itc o " Qhheg" Tgrqvt" Pq0" H J Y C/LRQ/37/477."cv" xkk" \*Cwi0"4237+." jwruclly y y0iqxlphq0iqxleqpvglwlrmiLHT/4239/23/34lr fh14238/5327;0r fh" \*W0U0" FQV"4237" Eqppgevgf" Xgjkeng" Tgrqvt+0"

<sup>56</sup>"CCK"Eq o o gpvu"cv"35=" C o gtecp"Cuqekcvkqp"qh"Uvcvg"Jki j y c {"cpf"Vtcurqvtcvkqp"Qhhekcnu"Eq o o gpvu"cv"5=" J qpf c"Eq o o gpvu"cv"32="KVU" C o gtecp"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.<sup>572n</sup> 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 " <sup>573m</sup>

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 " <sup>574m</sup> 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 " <sup>575n</sup>

3530A Hkpcn{."KVU"cfxqecvgtu"cti wg"v j cv"gzkvkpi "KVU"nkegpuggu" y qwnf"nceg" c"vtcpukvqp" equu" cdqxg"&722" o k m k q p . <sup>576n</sup> 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 " <sup>577m</sup> 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 v " 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 " <sup>578n</sup>

3540A Kp"tgurqpug."xctkquw"eq o o gpvgtu"cti wg"v j cv"v j g"Eq o o kuukqpou"rtqrqucn"ngcxgu"uw 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 " <sup>579n</sup> 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 " <sup>57:</sup> " 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 g " 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 " <sup>57:</sup> " 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 " <sup>582n</sup> 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 " <sup>583n</sup>

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 " }

<sup>572n</sup> "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 " }

<sup>573n</sup> 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" w u g " q h " K V U " v q " n k p m " o w n k r n g " v t w e m u " k p " c " e a p x q { 0 "

<sup>574n</sup> 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 "

<sup>575n</sup> 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 "

<sup>576n</sup> 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 "

<sup>577n</sup> W0U0" FQV" Tgrn{ "cv"59/5: 0" Egtvckp"ucvgt" FQV"u"cnug"gpw o gtcvgt"equu"urgekhe"vq" FUTE"rtqlgewu"kp"v j gkt"ucvgt0" See, e.g., "Okppguqvc" FQV"Eq o o gpvu"cv"7-"I gqt ikc" FQV"Eq o o gpvu"cv"40"

<sup>578n</sup> Kfcj q" FQV"Eq o o gpvu"cv"4-"Oqpvpc" FQV"Eq o o gpvu"cv"4-"Pgy" [ qtm"Ekv{ "Eq o o gpvu"cv"3/4-"Pqtvj" Fcmqvc" FQV"Eq o o gpvu"cv"4-" Ycu 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 "

<sup>579n</sup> 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 "

<sup>57:</sup> "Dtcvng"70;" I J | "Cpcn{uku"cv"; /320"

<sup>57:</sup> "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 "

<sup>582n</sup> "Dtcvng"70;" I J | "Cpcn{uku"cv"360"

<sup>583n</sup> "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 q 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 } 584 " 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 q 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 q 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 q 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 q 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 . 585 " 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 0 586 " " 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 q p u " v q " o k v i c v g " e q p i g u v k q 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 587 " " 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 0 588 " " 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 p u " q p " v j g " f k u v t k d w v k q 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 ' 0 589 " " 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 q 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 q 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 k 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 q 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 " 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 g " 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 g " 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'fkuvtkdvwkqp'cuuw or vkqpu'ctg'urgekhhg'kp'Gngevtqpk'e'Eq o o wpkcevkqpu'Eq o o kvvgg. GEE'Tgrqtv'524.'cv'44\*Oc{'4;.'423;+.jwruklfgefdlgrvqltlfqyqnqcflee25e988/57h:lGEE '42Tgrqtv '42524lrfh0'





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 p n n { . " w p n k m g" v j g" T C P F" 70; " 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"cnug"rtgkxqun{"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 0 597" 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" 70; " I J | " U v w f { " c u" y g n n" c u" v j g" 4242" 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" 70; " 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 0 598"

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 0 599" C u" u e w e 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" 70; " 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 0 599" 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 a 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 0 599;"

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 e j" c u" k p" v j g" P J V U C" X 4 X" P R T O. 5: 2" 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 e 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" 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" 52" 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" 32" o g i c j g t v | " q h" K V U" u r g e v t w o. 5: 3" 42" 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"Urgekheccm{"vjg"TCPF"70;"I J|"uvwf{"cvgo rvu"vq" guvk o cvg"vjg"rtgegp"d{"y jkej" I FR"y qwnf"kpctgcug"kp"tgurqpug"vq" c"dtqf dcpf"urggf"rtgegpvc"i g"kpctgcug"cp" gncuvkekv{+d{"tgi tguukpi" W0U0"ucvgo" I FRu"qp" W0U0"ucvgo"dtqf dcpf"urggf"u0"TCPF"vjgp" wugu"vjku" gncuvkekv{"vq"rtgfkev" vjg"cf f g f" I FR"dcugf"qp"vjgkt" guvk o cvg"qh"vjg"kpctgcugf"dtqf dcpf"urggf"htq o"tgrwtrqukpi"70;"I J|"urgetw o 0" TCPF"70;"I J|"Uvwf{"cv"36/430"

598" Vjg"4242" Y k H k H q t y c t f" U v w f { " c w 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" 70; " 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" 4242" Y k H k H q t y c t f" U v w f { " c v" 47/480" 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 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" 70; " I J | " U v w f { 0" 5.9 GHz NPRM. "56"HEE" Tef"cv"34848/49."rctc0"87" ("p032;0"

599" See"QOD"Ektewnc" C/6"cv"4" \*ucv 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: "Cu"cp"gzco r ng"qh"j q y"cev 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. "QOD"Ektewnc" 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 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" QOD"Ektewnc" C/6"cv"40"

59: "Kp"fqkpi"uq."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 e 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" See P J VUC"X4X"PRTO0"

5: 3" P J VUC"X4X"PRTO. : 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" 32" 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 a 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" hqt"KVU00" C f fvkqpcnm { . " P J VUC" cpcn { uku" hqtgecuu" dgpghkvu" dcugf" qp" vjg" uvcvg" qh" vgej pqqnq i { "kp" vjg" 4232/4235" dcug" rgtkqf. " y jkej " nkmgn { " uduvcpvkcn { " qxgtguk o cvgu" vjg" dgpghkvu" qh" FUTE" kp" hcvgt" { gctu. " y jgp" tgnkpeg" qp" eq o rng o gpvct { " qt" uduvkvwvg" uchgv { " u { uvg o u" \*g0i0. " dcugf" qp" ec o gtcu. " ncugtu. " cpf" tcfctu+ " y qwnf" nkmgn { " dg" hct" o qtg" y kf gur tgc f" vj cp" kp" 4232/423505:4m " Dgecwug" eq o o gpvgtu" pgvjgt" ujqy" vjcv" j { rqvj gvkecn" KVU" dgpghkvu" fguetkdgf" kp" vjg" P J VUC" cpf" qv jgt" uvwfkgu" y qwnf" dg" hquv" cu" c" tguwnv" qh" qwt" cevkqpu. " ppt" guvcdnkuj" vjcv" uwej" dgpghkvu" ctg" ceewtcvgn { " ecnewncvgf. " yg" tglgev" eq o o gpvu" c fxcpeki" swcpvkhkcevkqpu" htq o " vjgug" uvwfkgu05:5m

3620A Oqtg" i gpgtcnm { . " yg" fq" pqv" dngkxg" vjcv" vjku" r tgeggfkipi" y knn" ngcf" vq" eqi" pk | cdng" equvu" fwg" vq" cwvq o qdng" eqnkukqpu" vjcv" o c { " dg" nkpmgf" vq" qwt" cevkqpu0" Eq o o gpvgtu" cti" wg" vjcv" egtvcckp" c fxcpegf" hgcvwtgu. " kpenw fkipi" vjqug" rgtvcckpi" vq" nkgh" cpf" rtqrgtv { . " o c { " tgswktg" c f fvkqpcn" dcpf ykf vj05:6m " P J VUC0u" qy p" rtkqt" cpcn { uku" uw i i guvu. " j qy gxgt. " vjcv" X4X" uchgv { " cr nkecvkqpu" vjcv" eqwnf" gnk o kpevg" c" ncti" g" r tqrqtvkqp" qh" etcuju" o c { " tgswktg" o wej" nguu" urgetw o05:7m " Cpf" y jkng" eq o o gpvgtu" urgewncvg" cdqw" egtvcckp" c f fvkqpcn" dgpghkvu" \*k0g0. " vq" r g fguvtkcpu+ . " vjg { " jcxg" pqv" fg o qpvtvcgf" y jgvjgt" uwej" dgpghkvu" y qwnf" ctkg" ppt" swcpvkhkf" vjg" kpetg o gpvcn" dgpghkvu" i kxgp" vjg" X4X" uchgv { " cr nkecvkqpu" vjcv" y qwnf" dg" g z r gev g f" vq" dg" r tgu g t x g f0" Hwtv jgt. " eq o o gpvgtu" jcxg" pqv" fg o qpvtvcgf" vjcv" c fxcpegf" c r nkecvkqpu. " gxgp" kh" r tguw o g f" vq" qhgt" c f fvkqpcn" uchgv { " dgpghkvu. 5:8m " pggf" vq" tgn { " qp" KVU" urgetw o " qt" y qwnf" dg" ncti" gn { " qdxcv g f" d { " fgxgnqrkpi" uchgv { " hgcvwtgu" qvwukfg" KVU0

3630A Eq o o gpvgtu" cnuq" enck o " xctkqu" dgpghkvu" qh" KVU" htq o " pqp/uchgv { " cr nkecvkqpu0" Cu" g z r nckpgf" cdqg. " yg" fgenkpg" vq" tgn { " wrqp" guvk o cvgu" qh" wug" qh" KVU" urgetw o " hqt" c r nkecvkqpu" nkmg" tqc f" y gcvjgt" kphqt o cvkqp" vgej pqqnq i kgu" vjcv" ctg" o qtg" c r r tqr t kcvgn { " r t q x k f g f" wukpi" qv jgt" urgetw o " dcpfu" pqv" fg fkecvg" hqt" uchgv { /qh/nkgh" c r nkecvkqpu0" Oqtgqxtg. " yg" hkp" vjcv" eq o o gpvgtu" jcxg" pqv" ghgvekvgn { " fg o qpvtvcgf" vjcv" c fxcpegf" KVU" hgcvwtgu" y qwnf" t g f w e g" eqp i guvkqp" qt" gp xktq p o gpvcn" qt" qv jgt" equvu" vjcv" ctg" pqv" fktgevn { " t g n c v g f" vq" uchgv { 0" Y g" jcxg" cntgc f { " pqvgf" vjcv" 52" o g i c j g t v | " qh" urgetw o " ku" uw h h k e g p v" vq" uwr rqtv" o cp { " KVU" c r nkecvkqpu" cpf" g z k v k p i " u w w f k g u" f q " p q v " u j q y " v j c v " o q t g " u r g e t w o " y q w n f " i k x g " t k u g " v q " c f f v k q p c n " d g p g h k v u 0 5 : 9 m " H q t " g z c o r n g . " y j g t g u " e q o o g p v g t u " e n c k o " v j c v " e q o o g t e k n " r n c v q p k p i " u { u v g o u " c t g "

eq o o wpkecvkqpu0" P J VUC" X4X" P R T O . " : 4 " H g f 0 " T g i 0 " 5 ; 8 ; : 5 ; : 8 0 " " P J VUC0u" cpcn { uku" hqewugf" qp" vjg" kpvgtugevkqp" o qxg o gpv" cuukuv" cpf" nghv" wtp" cetquu" rcvj" c r nkecvkqpu. " uchgv { " dgpghkvu" vjg" c i g p e { " x k g y g f " c u " d g k p i " n g c u v " n k m g n { " v q " d g " t g r n k e c v g f " d { " c n v g t p c v k x g " p q p / K V U " u c h g v { " g p j c p e k p i " v g e j p q n q i k g u 0 " " P J VUC" X4X" P R T O . " : 4 " H g f 0 " T g i 0 " 5 ; 8 ; 0

5:4m Uk o knctn { . " vjg" Wpkxgtukv { " qh" Okejkicp" X4X" Tgrqtv" uqwi" jv" vq" guvk o cvg" vjg" ew o wncvkg" equv" cuuqekcvg f" y kvj" c" f g n c { " kp" o c p f c v k p i " X4X" e c r c d k 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 q 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 k 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 q 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 g f " f g x g n q r o g p v " q h " E / X 4 Z " v g e j p q n q i { 0

5:5m Urgekhecnm { . " yg" flucitgg" ykvj" eq o o gpvu" qh" Cmkpege" hqt" Cwvq o qvkg" Kppqxcvkqp. " FUTE" Cwvq" Uchgv { " Cmkpege" Ect" 4" Ect. " J C V E K . " K V U " o g t k e c . " P Z R " U g o k e q p f w e v q 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" P R T O . " : 4 " H g f 0 " T g i 0 " 5 : : 7 . " 5 ; 8 ; : 5 ; : 8 0 "

5:8m See e.g., "7 I C C" Eq o o gpvu" cv" 4 : / 5 3 0 "

5:9m Hqt" gzc o r n g . " g z w t c r q n c v k p i " h t q o " g u v k o c v g u " k p " c " W 0 U 0 " F Q V " e q p p g e v g f " x g j k e n g " t g r q t v . " e q o o g p v g t u " \* W U " V C I " E q o o g p v u " c v " 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 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 w f k g u " u w 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 q 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 k p i " e c r c d k 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 q 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+ "

gzrgevfg"vq"ko rtxxg"hwgn"ghhkegpe{"d{"9047' .5:":"qvjgt"rwdnke"guvk"ocvqu"qh"vjgug"ko rcevu"ctg"nqygt.5:":"cpf"vjgtg"oc{"dg"qhhuvgwkp"ieqpi"guvkqp"uchgv{"cpf"qvjgt"eqpegtpu"vjcv"eqwnf"fk"okpkuj"vjg"dgpgkhvu"htq"o"vjku"vgejppnqi{"\*kh"pqv"gnk"okpcvg"vjg"o"gpvktgn{+.5:2"ngcfkpi"egtvc"vtwem"o"cpwhcevtgtu"vq"tgeqpkufgt"kvu"wuq5:3"

3640A Pqt"fq"yg"xkg"y"vjg"vtcpukvqp"d{"gzkuvkpi"FUETE"nkegpuggu"vq"vjg"wr rgt"52"ogicjgtv|"kp"vjg"70;"IJ|"dcpf"vq"dg"cu"uwduvcpvkcnc"ecwug"qh"fgnc{"u"vq"fg r nq{"ogpv"qh"dcuke"KVU"cr r nkecvkqpu"kp"vjg" hqtguggcdng"hwvwtg0""Hktuv."cu"qvjgt"eq"o"ogpvtu"r qkp"qww."yg"pqvg"vjcv"E/X4Z"jcu"jcf"pq"ur gevtw"o" fgfkcevgf"vq"kvu"fg r nq{"ogpv."dww"v"jku"jcu"pqv"rtgxgpvgf"tcrkf"kppqxcvqkq"kp"vjcv"vgejppnqi{"y"jkej"kp"rcv." pgeguukvcvqu"vjku"rtqeggfki05:4""Ugeqpf."vjg"dcpf"rncp"rtqrugf"d{"Cnkcpeg"htq"Cwvq"o"qvkg"Kppqxcvqkq" uwi"iguvu"vjcv"vtcpukvqp"d{"FUETE"nkegpuggu"y"qwnf"jcxg"dggp"pgeguukvcvgf."gxgp"kh"qwt"twngu"rtqeggf" gzcev{"cu"CCk"gpukvqp"05:5""Cnkcpeg"htq"Cwvq"o"qvkg"Kppqxcvqkq"rtqrucn"kpvkcn{"uvkrwncvqu"vtcpukvqp" qh"FUETE"nkegpuggu"htq"o"vjg"wr rgt"42"ogicjgtv|"qh"vjg"70;"IJ|"dcpf"vq"ocmg"yc{"hqt"E/X4Z05:6""Vjg" rtqrucn"vjgp"uvkrwncvqu"ugeqpf"vtcpukvqp"chvgt"hxkg"getu."hqnnq"y"kp"ingevkq"qh"cu"ukping"vgejppnqi{" \*gkvjgt"FUETE"qt"E/X4Z+"y"kvj"cv"vgp/{gct"rjcugqww"rgtkf"htq"vjg"vgejppnqi{"vjcv"fqgu"pqv"rtgxcn05:7"" Dgecwug"vjgtg"ku"pq"iwctcpvg"vjcv"FUETE"y"qwnf"rtgxcn."v"jku"y"qwnf"htgucvnc"kvu"vtcpukvqp"d{"ugxgtcn" {gct."gxgp"cuuw"okpi"kv"y"cu"wnvk"ocvgn{"fgvgt"okpgf"vq"dg"vjg"rtgxcnkp"vgejppnqi{"ocp"cuuw"ovkqp"yg" hkp"wpqpxkpekpi"htq"vjg"tgcuqpu"fkuewuugf"cdqvg0""Oqtgqxtg."yg"hkp"vjcv"CCk0u"rtqrugf"eq"o"kv"ogpv" vq"fg r nq{"7"oknkp"tcfkqu"kh"vjg"gpvktg"70;"IJ|"dcpf"ku"rtgugtxgf"htq"KVU"ku"pqv"ghqtgdcng.5:8"cpf" k"o"rtqvcvnc{"tgrtgugpvu"t"tgnvcvgn{"o"qfguw"KVU"fg r nq{"ogpv"vjcv"ku"pqv"pgeguuctn{"cv"xctkpeg"y"kvj" fg r nq{"ogpv"vjcv"oki"jv"dg"cpvkekrvcvgf"y"kvj"qww"vjg"rtqrucn05:9""Vjg"rtqrugf"eq"o"kv"ogpv"cpf"dcpf"rncp"

Vehicle."74"KHCE/RcrgtuQpNkpg\*423;+="-[wphgk"Jqw"cpf"Skpi"Jg."Cooperative and Integrated Vehicle and Intersection Control for Energy Efficiency (CIVIC-E2).":3;"KGGG"Vtcpuvcvqpu"qh"Kpvgmki"gpv"Vtcpuqvtvcvqpu"U{uwgou" \*423:+"0"

5: "KVU"Co g tkec"Eq"o"ogpvu"cv"490"

5: "See, e.g."Fgrctv"ogpv"qh"Gpgti{"Qhhkeg"qh"Gpgti{"Ghhkegpe{"("Tgpgy"cdng"Gpgti{"Platooning Trucks to Cut Cost and Improve Efficiency" \*Hgd0"7."423:+.jvrukllyy"y0pgti{0iqxlgtelctvkengulrncvqqkpi"vtwemu/ew/equ/cpf/ k"o"rtxg/ghhkegpe{"\*ekvki"chkiwtg"qh"6' +0"

5:2" Tgegpv"tgugctej"ku"eqpegtpgf"y"kvj"r"qv"gpvkcnc"cfxgtug"ko rcevu"qh"vtwem"rncvqqu"qp"qvjgt"vtchhke"cpf"uchgv{0""See e.g.."Ogpi"Ycpi."gv"cn0."Benefits and Risks of Truck Platooning on Freeway Operations Near Entrance Ramp."4895" Vtcpuqvtvcvqpu" Tgugctej" Tgeqtf."7: : \*423;+="Vk"o"q"Hcdgt."g"cn0."Evaluating Traffic Efficiency and Safety by Varying Truck Platoon Characteristics in a Critical Traffic Situation."Vtcpuqvtvcvqpu" Tgugctej" Tgeqtf."FQk" 3203399|25833; : 342; 57665\*4242+0"

5:3" Rtguu" Tgngcug."Fck"o"ngt."Fck"o"ngt"Vtwemu"kp"gvu"j"cnh"o"dkmnp" Gwtqu"kp"jki"jn{"cww"o"cvgf"vtwemu"\*Lcp0"423;+."jvrukllyy"y0pgti{0iqxlgtelctvkengulrncvqqkpi"vtwemu/ew/equ/cpf/k"o"rtxg/ghhkegpe{"\*ekvki"chkiwtg"qh"6' +0" Fck"o"ngt"pqvqu"vjcv"kv"ku"otgcuuguukpi"kvu"xkg"y"qh"rncvqqkpi"o"dgecwug"getu" qh"v"guvkpi"ou"j"qy"vjcv"hwgn"ucxkpiu."gxgp"kp"r"ghgve"rncvqqkpi"eqpfkvkqpu."ctg"nguu"vjcp"gzrgevfg"cpf"vjcv"vjgug" ucxkpiu"ctg"hwvjtgt"fk"okpkujgf"y"jgp"vjg"rncvqqp"igvu"fkueqppgevgf"cpf"vjg"vtwemu"o"wu"ceengtcvg"vq"tgeqppgevt0"" Fck"o"ngt"hwvjtgt"kp"fkcevgf"vjcv"kvu"cpnc{uku"ou"j"qy"u"pq"dwukpguu"ecug"htq"ewuvq"o"gtu"ftkxkpi"rncvqqpu"kp"vjg"W0U0+ "

5:4" Dtcvng"70;"IJ|"Cpcn{uku"cv"32/330"

5:5" Ngvgt"htq"o"lqjp"Dq||gnnc."Rtguf"gpv"cpf"EGQ."Cnkcpeg"htq"Cwvq"o"qvkg"Kppqxcvqkq"\*CCk+."vq"Gnckpg"Ej"cq." Ugetgvct{"WU" FQV."GV" Fqemg" Pq0"3;/35:."cv"3/4"\*hngf"Cr t0"4:."4242+\*CCk"Cr t0"4:."4242"Ex Parte+0"

5:6" Cnkcpeg"htq"Cwvq"o"qvkg"Kppqxcvqkq"Cr t0"4:."4242"Ex Parte"cv"30"

5:7" Cnkcpeg"htq"Cwvq"o"qvkg"Kppqxcvqkq"Cr t0"4:."4242"Ex Parte"cv"3/40"

5:8" Kp"rcvkewnct."vjg"okp"fwuwt{/y"kf"gdwnf"qww"tgs"wtgt"ogpv"\*Cnkcpeg"htq"Cwvq"o"qvkg"Kppqxcvqkq"Cr t0"45."4242"Ex Parte"cv"4+"fqgu"pqv"nc{"qww"cp"ghqte"ogpv"o"gej"cpku"o"htq"kp"fkxkfwcn"rctvkekr"cpvu"vq"gpuwtg"vjcv"vjg"rtqrugf" eq"o"kv"ogpv"ku"ucvuhkgf"kp"vjg"ci"itig"cvg0""See"PEVC" Tgrn{"cv"620"

5:9" Hqt"kp"vcepg."vjg"rtqrugf"eq"o"kv"ogpv"ku"kp"etg"ogpvnc"vq"gzkuvkpi"fg r nq{"ogpvu"cpf"eqpukuv"qh"v"yq."eq"o"rgvki." pqp/kpvtg"rtgdcng"vgejppnqi"kgu0""Oqtgqxtg."gxgp"kh"gej"tcfkq"tgrtgugpv"fg r nq{"ogpv"qh"cu"ukping"X4Z"ecr"cdng" xgjkeng"o"y"jkej"vjg"rtqrugf"eq"o"kv"ogpv"o"cmgu"engct"ku"nkmgnc{"pqv"vjg"ecug"o"vjg"hkpcn"fg r nq{"ogpv"y"qwnf"tgrtgugpv" \*eqv"kp"wgf"i"0+ "



fq"pqv"eqpvgo rncvg"vjg"cf fvkqpcn"ngpi vj"qh"vk o g"pgeguuct {"vq"fg r nq {"vjg"rtgxcnkpi "vgejpqni {"pqt"vjg"vk o g"vj cv"kv"y qwnf"vcmg"htq"uw h h k e g p v " c f q r v k p d {" e q p u w o g t u " v q " j c x g " o g c p k p i h w n " d g p g h k v u . " c " v k o g h t c o g " f w t k p i " y j k e j " c n v g t p c v k x g " u c h g v {" c r r n k e c v k q p u " o c {" u w d u v c p v k c m {" f k o k p k u j " v j g " k p e t g o g p v c n " d g p g h k v u " c e j k g x c d n g " h t q o " K V U 0 " H q t " v j g u g " t g c u q p u . " y g " f g e n k p g " v q " e t g f k v " e n c k o u " v j c v " q w t " c e v k q p u " e q w n f " k o r q u g " e q u v u " u v g o o k p i " h t q o " f g n c {" u " k p " K V U " f g r n q {" o g p v 0 "

3650<sup>A</sup> Hkpcn {" . " y g " d g n k g x g " v j c v " v j g " W 0 U 0 " F Q V 0 u " g u v k o c v g " q h " v t c p u k v k q p k p i " g z k u v k p i " n k e g p u g g u " k u " c v " v j g " j k i j " g p f " q h " v q v c n " K V U " v t c p u k v k q p " e q u v u . " c p f " k u . " k p " c p {" g x g p v . " y g m " d g n q y " q w t " g u v k o c v g f " d g p g h k v u " q h " t g r w t r q u k p i " 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 0 " " k p " r c t k e w n c t . " v j g " W 0 U 0 " F Q V " e q p h q w p f u " v j g " e q u v u " q h " v t c p u k v k q p k p i " v q " 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 k v j " v j q u g " q h " v t c p u k v k q p k p i " v q " E / X 4 Z 0 5 : " " J q y g x g t . " v j g " n c v g t " e q u v " k u " p g e g u u k v e g f " d {" o c t m g v " h c e v q t u . " k p e n w f k p i " u w d u v c p v k c n " u w r r q t v " h q t " v j g " E / X 4 Z " v g e j p q n i {" d {" r t q r q p p v u " q h " K V U . " e q w r n g f " y k v j " c " i g p g t c n " w p f g t u v c p f k p i " v j c v " c " u k p i n g " k p v g t q r g t c d n g " K V U " u w p c f t f " d g u v " r t q o q v g u " r w d n k e " u c h g v {" 0 5 : " " O q t g x g t . " g z k u v k p i " F U T E " n k e g p u g g u " j c x g " t g e g p v n {" d g i w p " v q " g o r n q {" E / X 4 Z " q p " c p " g z r g t k o g p v c n " d c u k u . " v g n k p i " w u " v j c v " v j g " v t c p u k v k q p " v q " E / X 4 Z " k u " c n t g c f {" q p i q k p i 0 6 2 2 " " V j w u . " y g " x k g y " k v " c u " k p c r r t q r t k c v g " v q " k p e n w f g " c u " r c t v " q h " v j g " v t c p u k v k q p " e c n e w n c v k q p . " e q u v u " q h " v t c p u k v k q p k p i " v q " E / X 4 Z 0 6 2 3 " " C f f k v k q p c m {" . " k p " i g p g t c n . " g z r g p u g u " q p " t g u g t e j . " f g x g n q r o g p v . " c p f " v g u v k p i " t g h g t g p e g f " d {" K V U " r t q r q p p v u " t g r t g u g p v " v { r k e c n " g z c o r n g u " q h " u w p m " e q u v u " v j c v " c t g " k t t g e q x g t c d n g " k t t g u r g e v k x g " q h " c p {" c e v k q p " v j c v " y g " v c m g 0 6 2 4 " " U r g e k h k e c n {" . " y g " c i t g g " y k v j " e q o o g p v u " p q v k p i " v j c v " g z r g p u g u " q p " i t c p v u " c p f " t g u g t e j " r t q l g e v u " t g h g t g p e g f " d {" v j g " W 0 U 0 " F Q V . 6 2 5 " t g r t g u g p v " v { r k e c n " g z c o r n g u " q h " u w e j " u w p m " e q u v u . " y j k e j " y g " f g e n k p g " v q " t g e q i p k | g 0 "

IV. FURTHER NOTICE OF PROPOSED RULEMAKING

3660<sup>A</sup> Kp"vjg"Hktuv"Tgrqtv"cpf"Qtfgt"ygc"qrvfg"ctg"kgf"dcpf"rncp"htq"vjg"70;"I J|"dcpf"vjcv"eqpvkpwgu"vq"fguk"pcvg"vjg"wr rgt"52/o g i c j g t v | " r q t v k p \* 7 0 : ; 7 / 7 0 ; 4 7 " I J | + " q h " v j g " 7 0 ; " I J | " d c p f " h q t " K V U " c p f " u v k r w n c v g u " t w n g u " h q t " w p n k e g p u g f " f g x k e g u " q r g t c v k p i " k p " v j g " n q y g t " 6 7 / o g i c j g t v | " r q t v k p " q h " v j g " d c p f " \* 7 0 : 7 2 / 7 0 : ; 7 " I J | + 0 " " Y k v j " t g u r g e v " v q " 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 " v j g " t g x k u g f " d c p f " r n c p . " y g " g u v c d n k u j g f " v g e j p k e c n " c p f " q r g t c v k q p c n " t w n g u " v j c v \* 3 + " c m n q y " 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 e c n {" r q y g t " h g x g n u " c e t q u u " v j g " g p v k t g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " r q t v k p " q h " v j g " 7 0 ; " I J | " d c p f " c p f \* 4 + " c m n q y " h q t " n k o k v g f " h w n n " r q y g t " q w v f q q t " q r g t c v k q p u " v j t q w i j " v j g " U V C " q t " q v j g 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 . " f w t k p i " v j g " v t c p u k v k q p " r g t k f 0 "

3670<sup>A</sup> Vjg"Hktuv"Tgrqtv"cpf"Qtfgt"fgvgt"okpgf"vjcv"KVU"qrgtcvkqpu"qp"ejcppgnu"kp"vjg"70:72/70:;7" I J | " d c p f " r q t v k p " q h " v j g " 7 0 ; " I J | " d c p f " y k n n " d g " t g s w k t g f " v q " e g c u g " y k v j k p " a p p " { 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 g " H k t u v " T g r q t v " c p f " Q t f g t . " c p f " v j c v " 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 " w n v k o c v g n {" o w u v " w u g " E / X 4 Z " v g e j p q n i {" { " k p u v g c f " q h " F U T E / d c u g f " v g e j p q n i {" 0 " " K p " v j k u " H w t v j g t " P q v k e g . " y g " c f f t g u u " v j g " t g o c k p k p i " k u u w g u " d g h q t g " v j g " E q o o k u u k a p " c u " y g " h k p c n k | g " v j g " 7 0 ; " I J | " d c p f " t g u v t w e w t k p i " v q " v j g " o q f k h k e c n " d c p f " r n c p 0 " " U r g e k h k e c n {" . " y g " c f f t g u u " \* 3 + " v j g " v t c p u k v k q p " q h " c m n " K V U " q r g t c v k q p u " v q " E / X 4 Z / d c u g f " v g e j p q n i {" = " \* 4 + " v j g " e q f k h k e c n " 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 " k p " v j g " E q o o k u u k a p 0 u " t w n g u = " \* 5 + " q v j g t " v t c p u k v k q p "

nguu"vjcp"4 " "qh"vjg"oqtg"vjcp"492"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 0 U 0 " " S e e " C C K " C r t 0 " 4 5 . 4 2 4 2 " E x P a r t e " c v " 4 = " W 0 U 0 " F Q V . " D w t g c w " q h " V t c p u r q t v c v k q p " U v c v k u v k e u . " N u m b e r o f U . S . A i r c r a f t , V e h i c l e s , V e s s e l s , a n d O t h e r C o n v e y a n c e s . " [j w r u c l i y y 0 d w u 0 i q x l e a p g v p l p w o d g t / w u / c k t e t c h v / x g j k e n g u / x g u u g n u / c p f / q v j g t / e a p x g { c p e g u " \\* n c u v " x k u v g f " Q e v 0 " 4 9 . 4 2 4 2 + 0 "](#)

5: "W0U0" FQV" Tgrn {"cv"590"

5: "Hqt"kpucpeg. "vjg" Cmnkpeg"htq" Cwvq o qvkg" Kppqxcvkq"pqvgu"vjcv"vjg"ugngewkq"qh" c"ukping"vgejpqni {"y qwnf" rww"vjg" cwwq"kp f w u v t {"kp" c" rqukvkq"vjcv" o czk ok | gu" dgpghkvu"htq"tqc" vtcxngt0" Cmnkpeg"htq" Cwvq o qvkg" Kppqxcvkq" Crt0"4: ." 4242" Ex Parte" cv"40"

622" See, e.g.. "Eqntcfq" FQV" Eq o o g p v u " c v " 3 / 4 = " I g a t i k c " F Q V " E q o o g p v u " c v " 6 0 "

623" Yg"pqvg"vjcv"vjku"ku"pqv"kvjuvcpfkpi"egtvcpeq"o o g p v g t u o " c n v g t p c v k x g " c t i w o g p v u " h q t " y j {" v t c p u k v k q p " e q u v u " c t g " n k m g n {" q x g t u v c v g f 0 " U g g . " g 0 i 0 . " D t c v n g " 7 0 ; " I J | " C p c n {" u k u " c v " 3 5 / 3 7 0 "

624" See, e.g.. "Dtcvng"70;" I J | " C p c n {" u k u " c v " 3 4 / 3 5 0 "

625" W0U0" FQV" Tgrn {"cv"580"

eqpukfgtcvkqpu="cpf"\*6+"vjg"vtcpu o kvvgt"rqygt"cpf"g o kuukqp"nk o kvu."cpf"qvjgt"kuuwgu."tgnvcgf"vq"hwmm/rqygt" qvwfqq"wpnkegpugf"qrgtcvkqpu"cetquu"vjg"gpvktg"70: 72/70: ; 7" I J | "rqtvkqp"qh"vjg"70; " I J | "dcpf0"

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

3680A Wpfgt"vjg"Hktuv"Trgrqt"cpf"Qtfgt."cmn"gzukvki"KVU"qrgtcvkqpu"wukpi"ejcppgnu"kp"vjg"hqygt" 67"ogicjgtv|"qh"vjg"70;" I J | "dcpf"ctg"tgswtgfv"vq"vtcpukvqp"qvw"qh"vjcv"urgetw o "cpf"kpqv"vjg"wr rgt"52" ogicjgtv|"\*70: ; 7/70; 47" I J | "qh"vjg"70;" I J | "dcpf"vjcv" yknn"eqpvkpwg"vq"dg"fguki"pcvfg"ht"KVU0"KVU" nkegpuggu" o wuv"vcmg"pgeguuct {"uvgru"vq"cuuguu"vjgkt"gzukvki"gs wkr o gpv"cpf"kphtcuvtwevwtg"cpf"gvkjgt"tgvwpg" vjgkt"fgxkegu"vq"ceeguu"qpn {"vjg"urgetw o "kp"vjg"52" ogicjgtv | "vjcv" yknn"tg o ckp"cxckncdng"ht"KVU"qrgtcvkqpu" qt"tgrnceg"vjgkt"gs wkr o gpv" ykvj"vtcpu o kvvgt"fguki"pgfv"vq"uwg"qpn {"vjg"tgxkugf"KVU"dcpf0"Kp"vjku"Hwtvjgt" Pqvkeg."y g"rtqrug"vq"cf ftguu"tg o ckpki"kuuwgu"vjcv" o wuv"dg"tguqngf"tgictfki"vjg"vtcpukvqp"qh"KVU"kp" vjg"wr rgt"52" ogicjgtv | "htq o "FUTE"vq" E/X4Z"qrgtcvkqpu."kpenwfkpi"vjg"vk o kpi"cpf"rtqegfwtgu"pggfgf"vq" gpuwtg"cu o qqv"vtcpukvqp"vq"vjg"70: ; 7/70; 47" I J | "dcpf0" Y g"cnuq"uggm"eq o o gpv"qp"cf fvkqpcn"qt" cnvgtpcvkxg" o gcuwtgu"vjcv" o c {"dg" jgnrhnw."crrtrktcvg."qt"pgeguuct {0"

1. Timeline

3690A Kp"vjg"Hktuv"Trgrqt"cpf"Qtfgt."y g"tgswtgfv"vjcv"KVU"qrgtcvkqpu"kp"vjg"70: ; 7/70; 47" I J | " dcpf"wnvk o cvgn {" o wuv"uwg" E/X4Z"vgejppnqi {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"eqpxgtv"vq" E/X4Z"qt"egcug" qrgtcvkpi"v yq {"gctu"chvgt"vjg"ghhgevkg"fcvg"qh" c"Ugeqpf"Trgrqt"cpf"Qtfgt"cfqrvfg"kp"tgurqpug"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"kpqv"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"yq/{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"Vtcurqvtcvkqpu" xky"vjcv" xgjkeng" o cpwhcevtgt"rtqfwev"e {engu"pgeguukvcvg"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"pggfgf"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"kpqv"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"qrrqtvpkvgu"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 wncvqt {"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 kvvgtu" ykvj" E/X4Z" vtcpu o kvvgtu."ukpeg"y g"rtqrug" E/X4Z"vgejpkcn"twngu"eqpukv"gpv" ykvj"vjg"ewttgpv"twngu"ht" FUTE"cpf" vjgthqtg"pq"cpvgppc"ejcpigu"ctg"pggfgf"vq"eqxt"vjg"uc o g"ctgc"dcugf"qp"vjg"kfgpvkecn"rtqrcicvkqp" ejctceevgtkuvkeu"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"vgejppnqi {"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"pggfgf"vq"kpvkcvg" ejcpigu"vq"vjgkt"cwvjqt | cvkqpu" y jgp"vjg {"vtcpukvqp"vq" E/X4Z="vjg" { "uk o rn {" yknn"pggfgf"vq"uwg"gs wkr o gpv" vjcv" o ggvu"vjg"qrgtcvkqpu"cpf"vgejpkcn"twngu" y g"cfqrv"kp"vjg"Ugeqpf"Trgrqt"cpf"Qtfgt"ht" E/X4Z"

626 See Pcvkpcn" Jki jyc {"Vtchhke"Uchgv {"Cf o kpvutvckp" P J VUC+. "WU0 FQV. "Hgf gtcn" Oqvqt" Xgjkeng" Uchgv {" Uvcpfctfu="X4X"Eq o o wpkecvkqpu" Pqvkeg"qh"Rtqrugf"Twng o cmkpi" \*PRTO+0": 4"HT"5: 76." y jkej"uvcvgu"pgy" X4Z" tgswtg o gpvu."kh"cfqrvfg." y qwnf"r jcuq/kp"v yq" o qfng" {gctu"chvgt"vjg"hkpcn"twng"ku"cfqrvfg"vq"ceeq o o qfcvg" xgjkeng" o cpwhcevtgtu0"rtqfwev"e {engu0"

627 I FQV"Eq o o gpvu"cv"60"



vgejppnqi { 0"kh." j q y xgt." c"nkegpugg"pggf u"vq"eqpewtgpvn { " o cmg"cf lwuv o gpvu"vq"kvu"u { uvgo "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"

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2. Technical Parameters

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628"69"EHT"È"; 70527"Cwvj qtk | cvkqp"vq"qrgtcvg"Rgtuqpcn" Tcfkq"Ugtxkegu"uvcvkqpu="Rctv"; 7."Uwdrctv"N<"FUTEU"Qp/ Dqctf"Wpkvu0"Rctv"; 7"twngu"cr rn { "vq"vjg"Rgtuqpcn" Tcfkq"Ugtxkegu"cpf"rtqxkfg"ht" c"xctkv { "qh"rgtuqpcn" eq o o wpkecvkqpu."tcfkq"uki pcnkpi."cpf"dwukpguu"eq o o wpkecvkqpu0"0Nkegpugf/d { /twng0" o gcpu"vjcv"cp"cwvj qtk | gf"wgut" ecp"ceeguu"vjg"gpvktg"cxckncdng"urgetw o " y kvj qwv"cp"kpfxkfwcn"uvcvkqp"nkegpug"fqew o gpv"cpf"ku"kpvgcf"cwvj qtk | gf"vq" qrgtcvg"cu"napi"cu"vjg"qrgtcvkqpu"ctg"kp"ceeqtfcpeg" y kvj"vjg"cr rnkecdng"ugtxkeg"twngu0"See 69"W0U0E0"È"529\*g0"Vjju." y jknq"cm"urgetw o "wug"ku"ujctgf" c o qpi"wgutu" y jq" o ggv"vjg"gnki kdknv { "cpf"vgejpkcn"swcnkhkecvkqpu"cpf"pq"ppg"jcu" gzenwuxg"tki jw"vq"cp { "rtqvqp"qh"vjg"urgetw o ."vj qug"wgutu"ctg"eqmgevkn { "chhgtfgf"kpvgthgtgpeg"rtqvgvkqp"vis-à-vis" qvjgt"ugtxkegu."dcugf"qp"vjg"cmqecvkqp"ucvuw"wpfgt" y jkej"vjg" { "qrgtcvg0"

629"69"EHT"; 205990"

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

62:"69"EHT"ÈÈ"; 20599\*d+."; 7053850"

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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 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 t v / 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 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 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 n c p e g " v q " g p u w t g " g h h k e 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 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"hcxtq"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"hcxtq"qh"wkupi"vjg"uvcpfctfu"rtqeguu" ujqwnf"cuq"eq o o gpv"qp"gzrgev"vk o ghtc o gu"htq"uwej"dqfkgu"vq"rtqfweg"tgngxcpv"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"

3780A Tgncvfn{"vjg"gzkuvkpi"KVU"twngu"nc{"qww"cjkgctejkecn"rtkqtkv{"u{uvg o"htq" o guucigu0636"" Eqo o wpkecvkqpu"kpqxkxpi"vjg"uchgv{"qh"nhkg"jcxg"ceeguu"rtkqtkv{"qxtg"cmn"qvjgt"KVU"eq o o wpkecvkqpu0"" Eqo o wpkecvkqpu"kpqxkxpi"rwdnke"uchgv{"jcxg"vjg"pgzv"rtkqtkv{"ngxgn"ykvj"c"rtguw o rvkqp"vjcv"tqcfukfg" wkvu"qrgtcvgf"d{"uvcvg"qt"nqecn"iqxgtp o gpvcn"gpvkvku"ctg"gpici"gf"kp"rwdnke"uchgv{"rtkqtkv{" eq o o wpkecvkqpu0"" Cv"vjg"nqyguv"vkg"qh"vjg"jkgctej{"ctg"pqp/rtkqtkv{"eq o o wpkecvkqpu." y jkej"ctg"cmn"qvjgt" eq o o wpkecvkqpu0"" Yg"uggm"eqo o gpv"qp" y jgvjgt"vq"tgvcvkp"vjku" o guucig"rtkqtkv{"jkgctej{"htq"E/X4Z" fgrrnq{"o gpv0"" Dgecwug"vjg"uvcvgf"rwtrqug"qh"vjg"KVU"ku"vq"rtq o qvg"uchgv{"qwt"kenkpcvkq"ku"vjcv"vjku" o guucig"rtkqtkv|cvkqp"u{uvg o"ujqwnf"dg"tgvcvkp"cu"kv"jgnru"vq"gpwvgt"vjcv"vjg" o quv"k o rqtvcv" o guucigu" ctg"uweeguuhwnn{"vtcpu o kvvgf0"" Vjku" o c{"dgeq o g"gxgp" o qtg"k o rqtvcv"cu"KVU"qrgtcvkqpu" o wuv"cf lwuv"vq" fgkxgktpi"ugtkeg"kp"nguu"urgetw o"vjcp"wpfgt"vjg"ewtgpv"dcpf"rncp0"" Yg"uggm"eq o o gpv"qp"vjku"rqkvkqpu0"" Yqwnf"uwej"cu{uvg o"yqtm"ykvj"E/X4ZA""Kh"yg"tgvcvkp"vjg"ejcppgn"fgukipcvkqpu."fq"vjg{"pggf"vq"dg" o qfkkgf"htq"E/X4ZA"" Oqtg"dtqcfn{"ctg"vjg"gzkuvkpi"ejcppgn"fgukipcvkqpu"cpf"qrgtcvkpi"rtqveqnu"uvknn" vgejkecm{"tgngxcpv"wpfgt"vjg"pgy"dcpf"rncpA""Hwtvjgt."eq o o gpvgtu"ujqwnf"cf ftguu" y jgvjgt"vjku"rtkqtkv{" u{uvg o"ujqwnf"dg" o qfkkgf"kp"cp"y c{0"" Ujqwnf"vjgtg"dg" o qtg"itcpwnctkv{"kp"vjg"rtkqtkv{"vkgtuA""Kh"uq."vjgp" j qy"ujqwnf"uwej" o guucigu"dg"fgukipcvgFA"" Ujqwnf"vjg"eqpvpwg"vq"dg"cuuqekcvgf"ykvj"urgekhe"v"rgu"qh" nkegpuggu"qt"ujqwnf"vjg" o guucig"v"rg"dg"vjg"fgvgt o kpkpi"ncevqtA"" Ujqwnf"yg"eqpvpwg"vq" o ckpvckp"ce" rtkqtkv{"u{uvg o"dcugf"qp"qwt"gzrgev"vkv"vjcv"fgfkecvgf"KVU"urgetw o" y knn"dg"wguf"rtk o ctkn{"\*kh"pqv" gzenwukxgn{"+htq"uchgv{/qh/nhkg"cr rnkcvkqpuA"

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" qrgtcvkq"qt"oeq o o wpkecvkq" |qpgö"cpf"vjcv"uwej"eq o o wpkecvkq" |qpgu"dg"vjg"u o cmnguv"pgeguuct{"638"" Vjg" twngu"rtqxfg"htq"hwte"eq o o wpkecvkq" |qpgu"fgukipcvg"öCö"vjqtawij"öFö"htq"eqxgctig"ctgcu"tcpikpi"htq o" 37" o gvgtu"vq"3222" o gvgtu0"" Eqttgurqpfkipi{"gee|" |qpg"ku"cuuqekcvgf"ykvj"ce" o czk 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" o czk 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"nqecn"iqxgtp o gpi"gpvkvku"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"

ngxgnu"qp"vjg"eqpvtqn"ejcppgn"\*ejcppgn"39:+"cv"wr"vq"660:"fD o"cpf"qp"vjg"rwdnke"uchgv{"rtkqtkv{"ejcppgn"
\*ejcppgn"3:6+"cv"wr"vq"62"fD o"63:""Vjg"Eq o o kuukqpøu"twngu"cnuq"nk o kv"tqcfukfg"wpkv"cpvgppc"jgki jv"cu"
cpqvjgt"y c{"qh"gpuwtkpi"vjgug"wpkvu"fq"pqv"vtcpu o kv"dg{qp"vjgk"fguk i pcvgf" | qpgl" Tqcfukfg"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"eqttgurqpfpki"rqygt"
tgfwekqp"63:""Pqvcnd{"."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"ugtxgu"vq"hqewu"vjg"gpgti {"vq"qpn{"vjg"
fguktgf"eqxgtcig"ctgcul"

37:0Á Yg"uggm"eq o o gpv"qp" y jcv"vjg"cr rtrqtkcvg"rqygt"ngxgnu"wpf"vjg" o qfkhkgf"KVU"dcpf"
rncp"ujqwnf"dg0"Cu"cp"kpvkcn" o cwtg."vq" o czk o k | g"urgetw o "wug" c o qpi"cmn" wugtu." y g" rtrqrgf"vq"tgvc"vjg"
øeq o o wpkcvkqp" | qpgø" fguk i pcvkqpu"ewttgpn{"kp"vjg"twngu"cpf"tgs wktg"tqcfukfg"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"qht"qvjgt"nkegpuggu"vq"kpucnn"tqcfukfg"wpkvu"qht"qvjgt"pgctd{"ctgc"y kvj qww" o wwwcm{"
kpvgtgtpi"0" Yg"uggm"eq o o gpv"qp"vjku"rtrqrcu"cpf" y jcv"ghhgev."kh"cp{."kv" y kmn" jcxg"qp"E/X4Z"0"7 ICC"kp"
c"teggp"hnkpi" o qfkhkgf"kvu"kpvkcn"rqukvqp"cpf"pq y"tgs wguvu"vjcv"vjg"Eq o o kuukqp"fgngvg"vjg"
øeq o o wpkcvkqp" | qpgø"twngu"642"Vjwu." y g"cum"eq o o gpvgtu"vq"cf ftguu" y jgvjgt"vjg"ewttgpn"eq o o wpkcvkqp"
| qpg"fkucpeg"nk o kvu"ujqwnf"dg"tgvc"pfg"qt"ctg"vjg"tgc"u"vq" o qfkh{"qt"gnk o kpcvg"vjg o A"Uj qwnf"vjg"
rtqxfg"qht" o qtg"gzvpgf"eqxgtcig"ctgc"u"Qt"u o cmngt"ctgc"u"Qt"ctg"vjg{"ghhgev"y kvj qww"ejcpig"u"
Eq o o gpvgtu"cfxqecpki"ejcpigu"vq"vjg"eq o o wpkcvkqp" | qpgu"ujqwnf"rtqxfg"urgekhhk"kpht o cvkqp"qp"
y jcv"nk o kvu"vjg"hexqt"cpf" y j{"cpf" y jcv"ghhgev"vjg"eq"ejcpigu"y kmn" jcxg"qp"vjg"cdknkv{"qht"E/X4Z"vq"
fgrnq{"pgy"u{uvg o u"cpf"eqpvkpwg"qrgtcvki"kpqv"vjg"hwwtg0"

37;0Á Yg"cnuq"uggm"eq o o gpv"qp"vjg"cr rtrqtkcvg"qwrwv"cpf"tc fkcvgf"rqygt"ngxgnu"vjcv"ujqwnf"dg"
cuuqekcvg"y kvj"gej"eq o o wpkcvkqp" | qpg."ejcppgn."cpf" wugt0"Vjg"Eq o o kuukqp."dcugf"qp"7 ICC"øu"yckxgt"
rgvkvpkq."rtrqrgf"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"Urgekhkecn{"."vjg"Eq o o kuukqp"rtrqrgf"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"cyctg"qh"cp{"
ejcpigu"vq"vjg"rqygt"tgs wktg o gpvu"kp"uwdugs wgpv"kvgtcvkqpu"qh"vjg"5 IRR"uvcpfctf"cpf"vjwu."rtrqrgf"vjcv"
E/X4Z"tqcfukfg"wpkvu"eq o rn{"y kvj"vjcv"nk o kv0"Uj qwnf"vjg"twngu"eqpvkpwg"vq"rgt o kv"jki jgt"tc fkcvgf"rqygt"
qht"uvcvg"cpf"nqecn" i qxgtp o gpcn"gpvkkguA"Qt"uj qwnf"vjg"twngu"dg"eqpukvgpv" c o qpi"cmn" wugtu"cu" c" y c{"qh"
o czk o k | kp i"urgetw o "wug"cpf"eqpvtqmkpi"rqvgpvkcn"kpvgthgtgpeg"dg y ggp" wugtuA"Uj qwnf"y g"nk o kv"tc fkcvgf"
rqygt"vq"45" fD o"cu"urgekhhkgf"qht"uq o g"ejcppgnu."55" fD o"cu"urgekhhkgf"qht"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"qht"eq o o wpkcvkqp" | qpg"l"ejcppgn"eq o dkpcvkqpuA"Qt"y qwnf"kv"dg"
o qtg"cr rtrqtkcvg"vq"urgek{"qpn{"c"tc fkcvgf"rqygt"nk o kv."cu"tgs wugvgf"d{"7 ICC"kp"kvu"eq o o gpvuA"645" Dcugf"
qp"j qy" rctvku"gpvkukqp"hwwtg" wug"qh"vjg"KVU"dcpf."ctg"vjg"ctg"cfxcpc i gu"vq"eqpvkpwki"vq"urgek{"dqvj"
nk o kvu"cpf"tgs wktki"egtvc"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"qht"
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"ugtxg"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 kv"cvkqpu"ctg"
lwvkhkgf0" Ctg"vjg"tgc"u"vq"rgt o kv"jki jgt"cpvgppc"jgki jvuA"Uj qwnf"y g"eqpvkpwg"vq"tgs wktg"vjcv"
nkegpuggu"tgfweg"vjgk"rqygt"qht"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"Rgvkvpkq"qht"Y ckg"cv"38"cpf"5 IRR."Tngcug"36."
jwrrlly y 05 i r r0qti 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 gpv"kp"vjg"twnguA<sup>646</sup>"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"rtghgtgpeg"hqt"twngu"cpf"jgy"vjg{"y qwnf"y qtm"vq"gpuwtg" o czk o wo" ceegu"vq"vjg"dcpf0"

3830A Hkpcnn{."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"wpkvu0<sup>647</sup>"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 o<sup>648</sup>" 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 o<sup>649</sup>"Uj qwnf"yg"cfqr"vjku"jki jgt"rqygt"ngxgn"kpugcfa"" Y jcv" ghghev"y qwnf"uwej"cp"kpetgcug"jcxg"qp"vjg"cdkknv{"qh"E/X4Z"tqcfukfg"wpkvu"vq"eq/gzkuv"ykvj"cpf"rtqvev" hfgtgn"tcfkqncevkqp"uvcvkqpuA<sup>64</sup>:"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 kvu0<sup>64</sup>:"

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{"tghgtgpeg<sup>652</sup>"kp"vjg" Eq o o kuukqp0u"twngu0"" Yg"fkf"pqv"tgegkxg"uk i pkhkecpv"eq o o gpv"qp"vjku"kuuwg0""Uwdugs wgpv"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"cfftgugf"kp" Tgngcug"370""Kp"nki jv"qh"vjg"gxqnwvkqp"qh"vjg"E/X4Z" uvcfctf"vq"7 I"pgv y qtm"vgejpqni{"."yg"uggm"eq o o gpv"qp"y jgvjgt"qwt"twngu"ujqwnf"kpqtrqtcvg"vjg" 5 IRR"uvcfctf"d{"tghgtgpeg0""Eq o o gpvgtu"kp"hcxqt"qh"kpqtrqtcvkp"d{"tghgtgpeg"ujqwnf"cnug"rtqxfkfg" fgvcnu"tgi ctfkpi"y jkej"xtgukqp"ujqwnf"dg"kpqtrqtcvgf"6" 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{"cr rnkcevkqpu"y knn"dg"fgnkxgtgf"vq"cmn"wugtu"ikxgp"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"vtpukvkqp" 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"kpq"vjg" twnguA"" Yg"uggm"eq o o gpv"qp"gcej"qh"vjgug"qrvkqpu0""Eq o o gpvgtu"ujqwnf"cfftguu"jgy"vjg"qrvkqp"vjg{" hcxqt"y qwnf"rtq o qvg"uchgv{"ugtxkegu" c o qp i"cmn" wugtu0"" Hkpcnn{."yg"uggm"eq o o gpv"qp"y jgvjgt"yg"ujqwnf" qni{"kpqtrqtcvg"d{"tghgtgpeg"urgekhe"curgevu"qh"gvjgt"vjg"5 IRR" Tgngcug"36"qt" Tgngcug"38"uvcfctfa""Kh"

<sup>646</sup>"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"

<sup>647</sup>"69"EHT"È";7053890"

<sup>648</sup>"5.9 GHz NPRM."56"HEE"Tef"cv"3483:."rtcu0"5:0"

<sup>649</sup>"7 ICC"Eq o o gpvu"cv"490"

<sup>64</sup>:"See"0Eq 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" Fgxkegu00" Pcvkqpcn" Vnggeq o o wpkecvkqpu"cpf" Kphqt o cvkqp" C f o kpkwctvkqp."Ugevqk"KVU" Fgrnq{" o gpv"cpf"Vgejpkecn"Rctc o gyvtu"cv"330"

<sup>64</sup>:"69"EHT"È"3035320"

<sup>652</sup>"69"EHT"È"3035320"

<sup>653</sup>"5 IRR" Tgngcug"38."5tf" Ipgtvcvkp"Rctvpgtjkr"Rtlqgev"Vgejpkecn"Urgekhkecvkqp" I tqwr"Ugtxkegu"cpf"U{"uvg o " Curgevu"\*4242+0""jwruclly y y05i r r0qti ltgngcug/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"twnguA<sup>654</sup>"

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"ugtckegu"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"fgxkegu<sup>655</sup>"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"twngu<sup>656</sup>" F qkp i "uq" y qwnf" r tqxkf g" g s w k r o g p v" o c p w h c e w t g t u" y k v j" e n g c t" i w k f g n k p g u" h q t" g s w k r o g p v" c r r t q x c n" e q o r n k c p e g l" H w t v j g t o q t g."k v" y q w n f" r t q x k f g" c f l c e g p v/ e j c p p g n" 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" y k v j" e n g c t" i w k f g n k p g u" t g i c t f k p i" v j g" g z r g e v g f" u r g e t w o" g p x k t q p o g p v" u q" v j g" { " e c p" k p e q t r q t c v g" c r r t q r t k c v g" h k n v g t u" c p f" o k v i c v k p" o g c u w t g u" k p v q" v j g k t" r t q f w e v u" v q" r t q v e v" 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" c f l c e g p v" e j c p p g n" g o k u u k q p u" " D g e c w u g" q w t" r t g x k q w u" r t q r q u c n u" y g t g" e q p u k u v g p v" y k v j" v j g" e w t t g p v" 5 I R R" u v c p f c t f." y g" r t q r q u g" v j g" u c o g" q w w/ q h/ d c p f" g o k u u k q p" n k o k v u" h q t" E/ X 4 Z" j g t g" c u" y g" f k f" k p" v j g" 5.9 G H z N P R M" " U r g e k h k e c m {." y g" r t q r q u g" v j c v" c m" E/ X 4 Z" g s w k r o g p v" n k o k v" q w w/ q h/ d c p f" g o k u u k q p" n k o k v u" o g c u w t g f" c v" v j g" c p v g p p c" k p r w v" \* k l o g l." e q p f w e v g f" n k o k v u" v q"

- /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 g l"

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

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" c r r t r q t k c v g" h q t" E/ X 4 Z" g s w k r o g p v" " K p" v j k u" e q p p g e v k p p." y g" p q v g" v j c v" 7 I C C" t g e g p v n { " t g s w g u v g f" v j c v" y g" c f q r v" o q t g" t g n c z g f" Q Q D G" t g s w k t g o g p v u" <sup>657</sup> " K v" u r g e k h k e c m { " t g s w g u v u" v j c v" T U W u" n k o k v" q w w/ q h/ d c p f" g o k u u k q p u" v q <

- /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{ qpf"52" o g i c j g t v | "htq o"vjg"dcpf"gf i gu l"

U j q w n f" y g" c f q r v" v j g u g" c n v g t p c v k x g" Q Q D G" n k o k v u" k p u v g c f A" Y j c v" y q w n f" v j g" g h h g e v" q h" v j g u g" t g n c z g f" n k o k v u" d g" q p" v j g" c d k n k v { " v q" f g u k i p" c p f" o c p w h c e w t g" E/ X 4 Z" g s w k r o g p v A" J q y" y q w n f" v j g" { " c h h g e v" g s w k r o g p v" e q u v A" Y k n n" v j g u g" n k o k v u" g p u w t g" e q o r c v d k n k v { " y k v j" c f l c e g p v" W/ P K K" f g x k e g u" k p" d q v j" v j g" W/ P K K/ 6" c p f" W/ P K K/ 7" d c p f u." y j k e j" c t g" d g n q y" c p f" c d q x g" v j g" o q f k h k g f" K V U" d c p f." t g u r g e v k x g n { A" Y j c v" g h h g e v" y q w n f" v j g u g" n k o k v u" j c x g" q p" c f l c e g p v" d c p f" h k z g f" u g t x k e g u" k p" v j g" 8" I J | " d c p f A" Y g" c n u q" u g g m" e q o o g p v" q p" v j g" o g c u w t g o g p v" u v c p f c t f u" v j c v" u j q w n f" d g" c u u q e k c v g f" y k v j" g s w k r o g p v" c r r t q x c n" e q o r n k c p e g" h q t" x g t k h { k p i" v j c v" E/ X 4 Z" g s w k r o g p v" o g g v u" y j c v g x g t" Q Q D G" n k o k v u" y g" c f q r v l"

3. Other Transition Considerations

3870A Kp"5.9 GHz NPRM."y g"tsgwugvf"eq o o gpv"i gpgtcnm{"qp"vjg"xctkquw"vtcpukvkp/tgncvfg"

<sup>654</sup>" I k x g p" q w t" c f q r v k p" q h" E/ X 4 Z" c u" v j g" u q n g" v g e j p q n q i { " r g t o k v g f" k p" v j g" 70;" I J | " K V U" d c p f" c h v g t" v j g" v t c p u k v k p." E q p v k p g p v c n" j c u" t c k u g f" e q p e g t p u" c d q w v" v j g" t g u q n w v k p" q h" r q v g p v k c n" n k e g p u k p i" f k u r w y g u" t g i c t f k p i" v j c v" v g e j p q n q i { 0" See, e. g., "Eqpvkppvnc" Pqx l 9: 4242 Ex Parte" Y g" c n u q" t g s w g u v" e q o o g p v" q p" v j k u" k u u w g l"

<sup>655</sup>" 5.9 GHz NPRM: 56"HEE" Tef"cv"3483: . "rctcl"5: 0"

<sup>656</sup>" V j g u g" q w w/ q h/ d c p f" g o k u u k q p" n k o k v u" c t g" e q p u k u v g p v" y k v j" v j q u g" t g s w g u v g f" d { " 7 I C C 0" See N g w g t" h t q o" U g c p" V 0" E q p y c { " E q w p u g n" v q" 7 I C C. " v q" O c t n g p p" J 0" F q t v e j. " U e t g v c t { " H E E. " I P" F q e m g v" P q 0 3 : / 5 7 9 0" c v" C r r z 0" E \* C r t 0" 5. " 4 2 3 ; + 0"

<sup>657</sup>" 7 I C C" E q o o g p v u. " C r r z 0" C. " c v" 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"vgejppnq i {"kp"vjg"urgetw o"vjcv"tg o cku"tgugtxgf"hqt"KVU0<sup>658</sup>"Vq"kpqto o"qwt"eqpukfgtcvkqp"qh"kuuwgu"tgncvki"vq"vtpukvqkpi"qh"KVU"qrgtcvkqpu."yg"cumgf"vjcv"eq o o gpvgtu"rtqxfq"wr/vq/fcvq"kpqto o cvkqp"qp"cevwn"FUETE"qrgtcvkqpu"wpfgt"gzkuvkpi"nkegpugu"\*kpenwfkpi"vjg"pw o dgt"qh"tqc fukfg"wpkvu"cpf"qp/dqctf"wpkvu"cpf"vjg"xctkqwu"wu"vjcv"jcxg"dggp"ko"rng o gpvgt<sup>659</sup>"Vjg"Eq o o kuukqp"tgegkxgf"ugxgtcn"eq o o gpvu"vjcv"kpqxngf"uq o g"guvk o cvkqp"qh"vjg"rqvqpvkcn"equv"eqpukfgtcvkqpu"cuuqekcvgf"ykvj"vjgug"vtpukvqkpi"kuuwgu<sup>65</sup>:"

3880A Y g"vcmg"vjku"qr rqtvpkv {"vq"wr fcvq"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"tgeq i pk|g"vjcv."kp"nki jv"qh"qwt"fggekukqp."eq o o gpvgtu"y kmn"dg"kp"co"we j"dgwgt" rqukvkqp"vq"gxncwcvq"vjg"pgeguuct {"vtpukvqkpi"qh"vjg"t"tgurgevkv"u"uvgo"u"Y g"pqvq"vjcv"o cp {"qh"vjg"FUETE" r tqlgevu"cr rgtgf"vq"dg"cuuqekcvgf"ykvj"fg o qpvtcvkqp"rtqlgevu"fguk i pgf"vq"cf fttuu"rctvkewnc"vtchhke"cpf" uchgv {"eqpegtu.<sup>65</sup>"cpf"yg"uggm"cp {"wrfcvq"cdqww"FUETE"fg o qpvtcvkqp"rtqlgevu"qt"fgnq {"gpv."cu"y gmn" cu"cp {"E/X4Z"fg o qpvtcvkqp"qt"rknq"rtqlgevu."kpenwfkpi"cp {"hwpfkpi"i tcvu"vjcv"jcxg"dggp"rtqxfq"qt" ctg"cpvkekrvcgf<sup>662</sup>"Vq"y jcv"gzvqpv"ecp"gzkuvkpi"hw pfkpi"cv"vjg"hg fgtcn"qt"uvcvg"qt"nqecn"ngxgn"tgc fkn {"dg"wugf" ykvj"tgi ctf"vq"vjg"pgeguuct {"vtpukvqkpi"equv."kpenwfkpi"wug"qh"E/X4Z/dcugf"vgejppnq i {"A"

3890A Y jkng"yg"fkf"pqv"rtqrqg"kp"vjg"5.9 GHz NPRM "vq"rtqxfq"eq o rgpucvqkqp"hqt"uwej" tgnqecvqkqp."yg"pqpvj gnguu"uggm"hw tvjgt"eq o o gpv."kpenwfkpi"uw i i guvkqpu"qp"y jkej"rctvkewnc"v"rgu"qh"equvu" u j qwnf"dg"eqpukfgt"cu"cr r t r t k c v g " h q t " r q u u k d n g " e q o r g p u c v k q p " \* k p e n w f k p i " j q y " u w e j " e q u u v " y q w n f " d g " f q e w o g p v g f + " c u " y g m n " c u " v j g " r t q e g u u " d { " y j k e j " u w e j " e q o r g p u c v k q p " o k i j v " d g " f g v g t o k p g f " q t " k o " r n g o g p v g f 0 " " H k p c n n { . " y g " t g s w g u v " e q o o g p v " q p " c p { " q v j g t " c e v k q p u " 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 " v j c v " y q w n f " d g " j g n r h w n " v q " K V U " n k e g p u g g u " y k v j " t g u r g e v " v q " v j g u g " v t c p u k v k p i " o c v g t u 0 "

38:0A Y g"uggm"eq o o gpv"qp"y jvgvgt"yg"ujqwnf"nk o kv"wug"qh"vjg"70: ; 7/70; 47" I J |"dcpf"vq"ppq/ eq o o gtekc"ugtxkegu"qt"uchgv {"qh/nkhg"cr r nkecvkqpu<sup>0</sup>"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 " c p f " R w d n k e " M p q y n g f i g " r t g x k q w u n {" h k n g f " c " r g v k v k p " h q t " t w n g o c m k p i " c u m k p i " v j g " E q o o k u u k q p " v q " r t q j k d k v " e q o o g t e k c " q r g t c v k q p u " k p " K V U " u r g e v t w o 0<sup>663</sup>"U j q w n f " y g " o q f k h {" q w t " t w n g u " v q " r t q j k d k v " e q o o g t e k c " q r g t c v k q p u " k p " v j k u " u r g e v t w o " q t " q v j g t y k u g " n k o k v " u g t x k e g u " v q " u c h g v {" q h / n k h g " c r r n k e c v k q p u A " " J q y " y q w n f " v j g " E q o o k u u k q p " f g h k p g " o u c h g v {" q h / n k h g " c r r n k e c v k q p u A " " J q y " y q w n f " v j g " E q o o k u u k q p " f g n k p g c v g " d g v y g g p " u c h g v {" q h / n k h g " c p f " p q p / u c h g v {" q h / n k h g " c r r n k e c v k q p u A " " k p " u w e j " k p u v c p e g u . " y q w n f " v j g " E q o o k u u k q p " p g g f " v q " u r g e k h k e c n n {" n k u v " r g t o k w v g f " c r r n k e c v k q p u " k p " k v u " t w n g u " q t " y q w n f " c " i g p g t c n " r t q j k d k v k p u " u w h h k e g A " " Q t . " e q w n f " u w e j " c " r t q j k d k v k p " q p " e q o o g t e k c " q r g t c v k q p u " d g " c e e q o r n k u j g f " d {" n k o k v k p i " n k e g p u g " g n k i k d k n k v {" v q " q p n {" e g t v c k p " n k e g p u g g u . " u w e j " c u " i q x g t p o g p v c n " g p v k v k g u " q t " g p v k v k g u " g n k i k d n g " h q t " n k e g p u k p i " k p " v j g " R t k x c v g " N c p f " O q d k n g " T c f k q " U g t x k e g " R w d n k e " U c h g v {" R q q n " w p f g t " r c t v " ; 2 A <sup>664</sup> " C v " y j c v " r q k p v " y q w n f " c " w u g " q t " n k e g p u k p i " t g u v t k e v k p u " u q " c n v g t " v j g " e w t t g p v " c w v j q t k | c v k q p u " u q " c u " v q " e q p u k v w v g " c " h w p f c o g p v c n " n k e g p u g " e j c p i g " v j c v " y q w n f " g z e g g f " v j g " E q o o k u u k q p u "

<sup>658</sup> 5.9 GHz NPRM. "56"HEE"Tef"cv"3483:."rctc0"580"

<sup>659</sup> 5.9 GHz NPRM. "56"HEE"Tef"cv"34838/39."rctc0"540"

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

<sup>65</sup> "5.9 GHz NPRM. "56"HEE"Tef"cv"34833."rctc0"3:0"

<sup>662</sup> "Cu"vjg" W0U0" FQV" jcu"kp fkecvgf. "KVU"qrgtcvkqpu"vq"fcvg"jcxg"tgegkxgf"uwduvcpkcn"tgugcte j"cpf"fgnq {"ogp" kpxguv o gpvu. "kpenwfkpi"hg fgtcn. "uvcvg. "cpf"nqecn"kp xguv o gpv. "qxgt"vjg" {gctu. "cpf"yg"uggm"eq o o gpv"qp"vjg"cxckncdknk {" qh"vjcv"qt"uk o knct"hw pfkpi"hqt"vtpukvqkpi"cuuqekcvgf"ykvj"vjg"pgy"dcpf"rncp"hqt"KVU0"

<sup>663</sup> "Rgvkqkqp"hqt"Twng o cmkpi"cpf" Tgswguv"hqt" G o g t i g p e {"Uvc {"qh"Qrgtcvkqpu"qh" Fg fkecvgf"Ujqtv/Tcpi g" Eq o o wpkcvkqpu"Ugtxkeg"kp"vjg"70: 72/70; 47" I J |"Dcp" \*70;" I J |"Dcpf+. "TO/33993" \*hknqf" Lwpg"4: ."4238+0"

<sup>664</sup> "See 69"EHT"; 2042\*cv"y jkej"urgekkgu"gnk i kdknk {"hqt"c"rctv"; 2" rwdnke"uchgv {" rqqn"nkegpug"cpf" kpenwfgu" i qxgtp o gpvcn"gpvkvgu"cu"y gmn"cu"gpvkvgu"gp i c i g f"kp"nkhg"uwr rqtv"ugtxkegu." o g fkecn"ugtxkegu." hktg"rtqgevqkqp." hqtguvt / eqpugtvcvkqp."gve0"

cwvj qtkv{"vq"ghgvevwcvg"wpf"gt"ugevkqp"538"qh"vjg"Eq o o wpkecvkqpu"Cev."cu"co gpf"fgfA"" 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"ugt"xe"gu"vjcv"oc{" qrgtcvg"kp"vjg"70: ; 7/70; 47" I J |"dcpf"0

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 |"dcpf"0"Qwt"fggekukqp"vq"i gpgtcmm{"tguvtkev"W/PKK"fgxkegu"vq"kpffqqt" nqecvkqpu<sup>665</sup>wpvkn"KVU"qrgtcvkqpu"vtcpukvqp"vq"vjg"70: ; 7/70; 47" I J |"dcpf"rtqxfkgu"hgzkdknkv{"hqt"wpnkegpugf" fgxkegu"vq"dgikp"wukpi"vjg"70: 72/70: ; 7" I J |"dcpf"dwv"kp"e"y c{"vjcv"cxqkfu"vjg"rqvpgvkn"htq"jct o hwn" kpvgtgthtpep"vq"xxgkewnc"tuchgv{/tgcncvgf"cr rncecvkqpu"0"Qpeg"KVU"qrgtcvkqpu"jcxg"hkpkujgf"vtcpukvqkpi"vq" vjg"wr rgt"52"ogicjgtv|.jqy gxtg."yg"ecp"rgt okv"qvwfqqt"qrgtcvkqpu"cv"hwmm"rqygt."uwdlgev"vq"uwej"qvwfqqt" wug"rtqvevki"htq o"jct o hwn"kpvgthtpep"dqj"eq/ej cppgn"hgfgtcn"tcfkqncvqkqpu"qrgtcvkqpu"\*y kej"y kmm" tg o ckp"kp"vjg"dcpf+"cpf"cf lcegpv/dcpf"KVU"qrgtcvkqpu"0

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"eqpfkvpku"qt"eqpuvtckpvu"vjcv"vjg"Eq o o kuukqp"ujqwnf"eqpukfgt" hqt"W/PKK/6"qrgtcvkqpu"vq"rtqvev"hgfgtcn"tcfct"kp"vjg"70; " I J |"dcpf"0<sup>666</sup>"Eq o o ecuv"uwo kvgf"vjcv"vjg" Eq o o kuukqp"ujqwnf"cf qrv"kvu"rtqrqucn"vq"ko rno gpv"vjg"uc o g"vgej pkecn"twngu"cu"W/PKK/5"y kvj"tguvge"vq" W/PKK/6"fgxkegu"cpf"hgfgtcn"EqF"tcfct"qrgtcvkqpu"0<sup>667</sup>"YKURC"ci tggf"y kvj"vjg"Eq o o kuukqp"uwi i guvkqp" vjcv"pq"qvjgt"okvi cvkqp"ogcuwtgu"ctg"tsgwktgf"vq"rtqvev"EqF"tcfct"qrgtcvkqpu"kp"vjg"70; " I J |"dcpf"htq o" W/PKK/6"fgxkegu"0<sup>668</sup>"PEVC"ucvvgf"vjcv"vjg"Eq o o kuukqp"ujqwnf"cf qrv"kvu"rtqrqucn"vq"cwvj qtk |g"W/PKK/6" fgxkegu"y kvj qvw"tsgwktki"cp{"urgekcn"htgswgpe{"cxqkfcpeg"vgej pks wgu"qt"uk o knct"eqpuvtckpvu"ukpeg"W/PKK/5" fgxkegu"jcxg"ujctgf"urgetw o"y kvj"eq/ej cppgn"hgfgtcn"kpew o dgpvu"htq" {gctu"y kvj qvw"cp{"urgekcnk |gf" htgswgpe{"cxqkfcpeg"vgej pks wgu."cpf"kp"i gpgtcn"ujctkpi"jcu"dgpp"uweeguuhwn"0<sup>669</sup>

3930A PVKc"tgxky g"vjg"hgfgtcn"tcfct"qrgtcvkqpu"cwvj qtk |gf"kp"vjg"70; " I J |"dcpf"cpf" fgvgto kpgf"vjcv"vjg"pw o dgt"qh"tcfct"ukvgu"pggfkpi"rtqvevqkqpu"eqwnf"dg"tgfwegf"vq"htq o"7; "vq"52"ukvgu"0" PVKc"0"cpn{"uku"eqpenwfgu"vjcv"zgenwukqp" |qpgu"ctg"pggfgf"vq"rtqvev"hgfgtcn"tcfkqncvqkqpu"u{ uvgo u"qpn {" htq o"W/PKK/6"outdoor"rqkv/vq/rqkv"\*R4R+"cpf"rqkv/vq/ o wnvkrqkv"\*R4OR+"fgxkegu"0"Vjg"zgenwukqp" |qpgu" tgeq o o gpf"gd {"PVKc"ctg"ugv"htvj"kp"Vcdng"4"qh"kvu"Ugrv"0": "4242"ngvgt"0"Vq"ghqteg"vjg"zgenwukqp" |qpgu." PVKc"tgeq o o gpf"v"vjcv"kpvgthtpep" o kvi cvkqp"vgej pks wgu"uwej"cu"igq/hgpeki"dg"g o rno {gf"vq"rtqvev" hgfgtcn"tcfkqncvqkqpu"qrgtcvkqpu"0"PVKc"g o rj cuk |gu"vjcv"kv"ku"ko rqtvcpv"vjcv"qvwfqqt"W/PKK"fgxkegu"ctg"pqv" rgt o kvgf"vq"qrgtcvg"kpukfg"qh"vjgug"zgenwukqp" |qpgu"vq"gpuwtg"vjcv"hgfgtcn"tcfkqncvqkqpu"u{ uvgo u"ctg" rtqvev"htq o"jct o hwn"kpvgthtpep"0<sup>666</sup>"PVKc"cuuq"tsgwgu"vjcv"vjg"pg y"twngu" o cmg"engct"vjcv"kv"oc {" cwvj qtk |g"cf fvkqpcn"zgenwukqp" |qpgu"qt" o qfkh{"vjg"gzkvkpi"zgenwukqp" |qpgu"nkuvgf"kp"Vcdng"4"cu"pgeguuct {"

<sup>665</sup>"Vjg"Hktuv"Trgrqtv"cpf"Qtfgt"cmnyu"qvwfqqt"W/PKK"fgxkeg"qrgtcvkqpu"wpf"gt"egtvc"epfkvpku"cpf"y kvj" Eq o o kuukqp/cwvj qtk |gf"urgekcn"vg o rqtct {"cwvj qtkv {"0

<sup>666</sup>"69"W0U0E0E"; 24\*d+\*4+\*C+0

<sup>667</sup>"Eq o o ecuv"Eq o o gpv"cv"32."p04:0"

<sup>668</sup>"YKURC"Eq o o gpv"cv"90"

<sup>669</sup>"PEVC"Eq o o gpv"cv"680"

<sup>66</sup>"See" Pcvkqpcn"Vnggeq o o wpkecvkqpu"cpf"Kphqt o cvkqp"cf o kpkvutcvkqpu"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." [jwruclly y y0pvc0f qe0 i qxltgrqtv1423 ; lnguuqpu/ngctpgf/fgxgnqr o gpv/cpf/ fgxgnq | o gpv/7/i j | /wpnkegpugf/pcvkqpcn/kphqt o cvkqp"Ugevkqpu": "fguetkdgu"kpvgthtpep"vq"cf hgfgtcn"tcfct"htq o"o"W/PKK" fgxkeg"0](http://www.fcc.gov/pressroom/2019/04/20190411-05)

vq"gpuwtg"hgfgtcn"tcfkqncqcvkqp"uvcvkqpu"ctg"rtqvgevgf<sup>66</sup>:"

3940A Y g"ci tgg"vjcv"uq o g" o kvi cvkqp" o gcuwtgu"ctg"pggfgf"vq"gpuwtg"vjcv"qwfqqf"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" rtqvgevkqp0" 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. <sup>672</sup>"kpenwfkpi" swgukvqkpi" y jgvjgt" P VKC0u"kpvgthgtgpeg"cpn{uku"ku"eqpukuvgpv" y kvj"vjg"cuuwo rvkqpu" kp"vjg"6 GHz Report and Order<sup>673</sup>" Y g"uggm"eq o o gpv"qp" P VKC0u"vgejpkecn"cpn{uku"cu" y gnn"cu"eq o o gpv" qp"cp{ "cnvgtpcvg" o gvjqfu"htq" fvgvt o kpkpi" vjg"rctc o gvgtu"qh"gzcnwukqp" | qpgu0"Eq o o gpvgtu"cfxqcvkpi" qrkpkqpu"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"rtqvgevkqp"vq"hgfgtcn"tc fct u0" Cnvgtpcvkxgn{ ".ctg"qvjgt" rtqvgevkqp" o gejcpku o u."uwej"cu"eqqt fkpvcvkqp."hgcuikng" o gvjqfu"qh"rtqvgevkpi"hgfgtcn"qrgtcvkqpu"kp"egtckp" ctgcuA"Eq o o gpvgtu"hcxqtkpi"eqqt fkpvcvkqp"qt"qvjgt" o gvjqfu"ujqwnf"fguetkdg"j q y"uwej" o gvjqfu"ecp"dg" k o r ng o gpvgtf"cpf" o ckpvckpgf"uwej"vjcv"hgfgtcn"tc fct"qrgtcvqtu"jcxg"cuuwtcegu"vjcv"vjgkt"kpucmncvkqpu"ctg" cpf"eqpvkpwg"vq"dg"rtqvgevgf"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"qwfqqf"uwg." y g"uggm"vq"rtqvgevg" k o rqtvcpv" FqF" tcfct u"htq o "jct o hwn"kpvgthgtgpeg."rtqxfkf"hgzkdknk{ "vq"W/PKK"u{uvgo "qrgtcvqtu."okpkok|g"gs wkr o gpv" eq o r ngz kv{ "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"uwg" c" fvcdcug"vq"cxqkf"ctgcu" y jgtg"vjg" rvgpvkcn"htq"ecwukpi" jct o hwn"kpvgthgtgpeg" y qwnf"gzku0" Hqt"gzc o r ng." 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" qrgtcvg<sup>674</sup>"cpf"8" I J | "uvcpfctf"rqygt" W/PKK" fgxkegu"ctg"uk o knctn{ "tgs wktgf"vq"kpqtrqtvcg" c" i gqncqcvkqp" ecrcdknk{ "cpf"eqpuwv"cp"cwvq o cvgf"htgswgpe{ "eqqt fkpvcvkqp" fvcdcug" rtkqt"vq"qrgtcvkpi"vq"cxqkf"ecwukpi" jct o hwn"kpvgthgtgpeg"vq"hkzgf"ugtxkeg"kpew o dgpv<sup>675</sup>"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"rtqvgevkpi" qpn{ "52"hgfgtcn"tcfkqncqcvkqp"ukvgu" y qwnf"dg" c" tgnvcxgn{ " uk o r ng"wpfgtvcmkpi"wpfgt"vjku"tg i k o g0" Dww"kpqtrqtvcvkpi" i gqncqcvkqp"ecrcdknk{ " fagu"kpctgcug"vjg" eq o r ngz kv{ "qh" c" fgxkeg"cpf" cff"qxgtjgc f" \*dqj" jct f y ctg"cpf"uqhv 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 cppgt" y qwnf"gpvckn" o cp{ "fkhhgtgpegu" htq o "W/PKK/5" fgxkeg"qrgtcvkqp"cpf"eqwnf"nk o kv"vjgkt" wughwnpguu"kp"rtqxfkfpi"vjg"cdnk{ "vq"uwg" 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/PKK/5" c p f" W/PKK/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 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/PKK" d c p f u" k p e n w f k p i" v j g" 8" I J | " W/PKK/7" c p f" W/PKK/9" d c p f u<sup>676</sup>" 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 v{ 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{ " v q" W/PKK/6" fgxkeguA" Y qwnf"vjg"tg"dg"cp{ "kpetg o gpvcn"equ"htq" kpqtrqtvcvkpi"uwej" c"tgs wktg o gpvA" J q y" y qwnf"uwej" c"tgs wktg o gpv"chhgev"vjg" wvknv{ "qh" W/PKK/6" fgxkegu" cpf"vjgkt"cdnk{ "vq" y qtm"ugc o nguun{ " y kvj" W/PKK/5" fgxkegu"vq" fgnkxgt" c r r n k e c v k q p u" x 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 | "

<sup>66</sup>:"See PVKC"Ugrv0" : "4242"Ngvvtg"cv"5/60"

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

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

<sup>674</sup>"69"EHT"È"3709330"

<sup>675</sup>"69"EHT"È"370629\*m+0"

<sup>676</sup>"Hqt"gzc o r ng." 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 fkpvcvqp"twngu."gzegev"vjcv"vjg"gzenuwukqp" | qpgu"ctg"cntgcf {"mpqyp"cpf"fq"pqv" pggf"vq"dg"ecnewncvqf"d {"vjg"cwvq o cvgf"htgswgpe {"eqqt fkpvcvqp"u {uvq o 0"" Y g"uggm"eq o o gpv"qp"wukpi"vjg"8" I J | "htc o gy qtm"htq"qwwfqqt"W/PKK/6" fgxkegu0"

3970A Dgecwug"vjg"W/PKK/6"dcpf"gzenuwukqp" | qpgu"ctg"mpqyp"kp"cfxcpeg."ctg"vjg"tgu"uk o rngt" o gvj qfu"htq"gpwtkpi"vjcv"qwwfqqt"W/PKK/6" fgxkegu"tgu"rgev"vjg"pggf"vq"cxqkf"qrgtcvki"pgct"vjg"hgfgtcn" tcfkqncvckqp"u {uvq o uA""Hqt"gzc o rng."eqwnf" y g"uk o rn {"tgn {"qp" r tqhguukqpcn"kpucnncvckqp"vq"gpwvtg"vjcv" qwwfqqt"W/PKK/6" fgxkegu"fq"pqv"qrgtcvq"kp"vjg"qug"ctgcuA""Wpfgt" c" r tqhguukqpcn"kpucnncvckqp"tgi k o g." y jcv" twngu"cpf"tgswwktg o gpvu" y qwnf"vjg"Eq o o kuukqp"pggf"vq"rww"kp" rnceg"vq"gpwvtg"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 gqncvckqp"ecrcdtkv {"cpf"gvjgt"dg" r tgnqcf"fgf" y kvj"vjg"gzenuwukqp" | qpg"eqqt fkpvcvqp"cpflqt" fqy pncqf"vjg"qug"eqqt fkpvcvq"qpeg"qt"qp" c" rgtkfke"dcuku."uwej"cu"gxgt {"vk o g"vjg" fgxkeg"ku"vwtpgf"qp"qt"cv" uq o g"ugv"kpvtxcn" \*g0i0."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" fgxgnrki" gswkr 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 kwgf"vq"qrgtcvq"cv"vjg"uc o g" r qy gt"ngxgnu" \*g0i0."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" fkhhtgtpv" r qy gt"ngxgnu0677"

3990A Vjg" Yk/Hk" Cmkcpeg"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"" Yk/Hk" Cmkcpeg"eqpvqfu"vjcv"vq"tgeq i pk | g" vjg"hw n"dgpgkhv"qh"vjg"W/PKK/6"urgetw o ."kpenwfkpi"gzrcpfgf"qrgtcvqpu"qh"gzkuvki"W/PKK" fgxkegu."vjg" ygejpkcn"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"cfqrvqf"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 kpcvki"vjg" r qvgpvkn" wug"qh" y kfgt" e jcppgnu."gswkr o gpv"eq o o qpckv {"tgfwegf"equv"cpf"eq o o rngzvk {"uwr gktq" r gthqt o cpeg."cpf"qvjgt"dgpgkvu" vjcv" o c {"dg"tgnk | g" d {"vjg"Eq o o kuukqp0" r tqrqcn0678"" YKURC"uvcvq"vjg"Eq o o kuukqp0" r tqrqcn"vq"cnmqy" 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" YKURC0"tgeq o o gpfcvqpu"kp"GV" Fqemg" Pq0"35/6; "kp"vjcv"kv" y qwnf"rgt o kv" jki jgt/GKTR"hkzgf" yktnguu"qrgtcvqpu"vjcv" y knm"gpdcng" wug"qh"vjg"70; " I J | "dcpf"htq"twcn"dtqcf dcpf" fgrnq {" o gpv."kpenwfkpi"dqj"qwwfqqt"rqp v/vq/rqkv"qrgtcvqpu"cpf" r qp v/vq/ o wnvkrqkv"qrgtcvqpu0679"" Eq o ecv"cuugtvu"vjcv"jct o qpki"vjg"W/PKK/6"vgejpkcn"twngu" y kvj"vjg"qug"qh"vjg"W/PKK/5"dcpf."rctkwactn {" vjg"Eq o o kuukqp0" r tqrqcn"vq"cnmqy" 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"cdknkv {"vq"dtki"vjg"dcpf"kp vq" wug"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"qrgtcvqpu"ujcnn"pqv"gzeggf"3" Y0""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" wugf."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 gxtg."hkzgf" r qp v/vq/rqkv" W/PKK" fgxkegu"qrgtcvki"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 fki" i" tgfwekqp"kp"vtcpu o kvgt"eqpfwevgf" r qy gt0"69"EHT"E"370629\* c+5+0"

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

679" YKURC"Eq o o gpvu"cv"80"" See also"Ngwgt"htq o "Encwfg" Ckmgp."Rtgukfgpv"cpf"EGQ." YKURC."vq"Octngp"J0" Fqtvej." Ugetgvct {"HEE."GV" Fqemg" Pq0"35/6; ."cv"3" \*fcvgf"Qev0"48."423: +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 g<sup>688</sup>"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"qrgtcvkqpu<sup>0</sup>"Wpfgt" I O<sup>0</sup>u" uwi i guvkqp"\*/49"fd o l o J |"cv"qt"cdq xg"70; 27" I J |+."W/PKK/6"fgxkegu<sup>0</sup>"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"fgxkegu<sup>0</sup>"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 { <sup>689</sup>

3: 30<sup>A</sup> 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 NPRM<sup>68</sup>:" Y KURC"uwd o kvu"vjcv" qwwfqqt"W/PKK/6"qrgtcvkqpu<sup>0</sup>"QQDG"dg"nk o kv"gf"vq"/7"fd o l o J |"cv"qt"cdq xg"70: ; 7" I J |<sup>68</sup>:"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 <sup>692</sup> " 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 <sup>0</sup> " 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 <sup>693</sup>

3: 40<sup>A</sup> 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 g f " v q " W / P K K / 5 " v t c p u o k u u k q p u " v q " 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 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 | + <sup>694</sup> " 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 e 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 "

<sup>688</sup> See 5.9 GHz NPRM. "56"HEE"Te f"cv"34845." rctcu<sup>0</sup>"76/770"

<sup>689</sup> 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"32<sup>0</sup>

<sup>68</sup>: "See."e.g.. "Dtqcf eq o ."Kpe<sup>0</sup>"cpf"Hcegdqmq."Kpe<sup>0</sup>"Eq o o gpvu"cv"7/8="F{p c o k e"Urgewt w o"Cnnkpeg"Eq o o gpvu"cv"6=" Y k / H k " C n n k p e g " E q o o g p v u " c v " 8 / 9 0 "

<sup>68</sup>: Y KURC"Eq o o gpvu"cv"8<sup>0</sup>

<sup>692</sup>Ngwgt"htq o" E j t k u " U | { o c p u m k . " D t q c f e q o = " T q d " C n f g t h g t . " E c d n g N c d u = " C n c p " P q t o c p . " H c e g d q m q = " c p f " F c p k g n n g " R k o g t g u . " P E V C . " v q " O c t n g p g " J 0 " F a 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 : " \* h k n g f " L w n { " 5 3 . " 4 2 4 2 + " \* E q 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 "

<sup>693</sup>Id<sup>0</sup>"cv"3."70"

<sup>694</sup> Y k / H k " C n n k p e g " E q o o g p v u " c v " 9 / : = " T g r n { " c v " 9 0 "



dcpf"cpf" fghgcv"vjg"qdlgevkxg"qh" ocmkpi"cf flkvkqpcn"urgetw o "cxckncdng"htq"wpnkegpugf"qrgtcvkqpu<sup>695</sup>"Vjg" Yk/Hk"Cmncpep"cnuq"uwr rqtvu"cr rn {kpi"vjg"gzkuvkpi"W/PKK/5"QQDG"nk o kvu"cv"vjg"nq ygt"gf ig"qh"vjg"W/PKK/5" dcpf"htq"qwwfqqt"W/PKK/6"fgxkegu."qt"fgxkegu"vjcv"qrgtcvg"cetquu"cupking"ejcppgn"vjcv"urcpu"vjg"W/PKK/5" cpf"W/PKK/6"dcpfu."k0g0."cv"70947" I J |."y jkng"pqv"ko rqukpi"cp{ "QQDG"nk o kv"htq"W/PKK/6"fgxkegu"cv"vjg"W/ PPK/51W/PKK/6"dcpf"gf ig" \*k0g0."cv"70: 72" I J | +<sup>696</sup>

3: 50Á Hqt"qwwfqqt"W/PKK/6"ceeguu"rqkpv"fgxkegu"qt"qwwfqqt"ceeguu"rqkpv"fgxkegu"vjcv"qrgtcvg" cetquu"cupking"ejcppgn"vjcv"urcpu"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu."y g"rtqrqug"vjg"qwwfqqt"W/PKK/6" QQDG"nk o kvu"tgeq o o gpf gf" d { "vjg" Yk/Hk"Cmncpep"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 gcuwtgf" wukpi"cp"TOU" o gcuwtg o gpv<sup>0</sup>" Y g"ctg"pqv"eqpxkpegf"vjcv"vjg" o qtg"tgnzczgf"QQDG"nk o kvu"uw i i guvgf" d { "wpnkegpugf"rtqrqpgpvu"y qwnf"cf gswcgn { "rtqgev"KVU"qrgtcvkqpu" htq o "jct o hwn"kpvgthgtgpeg"ukpeg"vjg { "ctg"nguu"tguvtkevkg"vjcp"gzkuvkpi"W/PKK/5"QQDG"nk o kvu<sup>0</sup>" Y g"ctg"cnuq" pqv"eqpxkpegf"vjcv"vjg" o qtg"uvtkpi"gpv"QQDG"nk o kvu"uw i i guvgf" d { "KVU"rtqrqpgpvu"ctg"pgeguuct { "vq"rtqgev" cflcegpv/dcpf"KVU"qrgtcvkqpu"ukpeg"vjg { "ctg" o qtg"tguvtkevkg"vjcp"vjg"gzkuvkpi"W/PKK/5"QQDG"nk o kvu." y jkej"vjg"Eq o o kuukqp"rtgxkqwn { "chhkt o gf" y qwnf"rtqgev" FUTE"qrgtcvkqpu"cpf"jcxg"cntgcf { "rtqxp"vq" dg"ghhgevkxg"kp"rtqgev"kvpi"KVU"qrgtcvkqpu"htq o "jct o hwn"kpvgthgtgpeg<sup>697</sup>" Y g"cnuq"rtqrqug"vq"cr rn { "vjg" gzkuvkpi"W/PKK/5"QQDG"nk o kvu"cv"vjg"nq ygt"gf ig"qh"vjg"W/PKK/5"dcpf"htq"qwwfqqt"W/PKK/6"fgxkegu."qt" fgxkegu"vjcv"qrgtcvg"cetquu"cupking"ejcppgn"vjcv"urcpu"vjg"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"vjg"W/PKK/51W/PKK/6"dcpf"gf ig."k0g0."cv"70: 72" I J |<sup>0</sup>" Y g"dgngxg"vjcv"vjgug"nk o kvu" y knn"rtqgev"cf lcegpv/dcpf"KVU"qrgtcvkqpu"htq o "jct o hwn"kpvgthgtgpeg" fwg"vq"wpnkegpugf"qrgtcvkqpu"kp"vjg"W/PKK/6"dcpf."uwr rqtv"ugrctcvg"W/PKK/5"cpf"W/PKK/6"dcpfu"vq"rtqxfkg" hngzdknk { "htq"fgukipkpi"W/PKK/5"gswwr o gpv"wpfgt"vjg"nguu"uvtkpi"gpv"QQDG"twng"cv"vjg"wr rgt"gf ig"qh"vjg" dcpf."cpf"rtqxfkg"hngzdknk { "htq"fgxkegu"vq"qrgtcvg"cetquu"vjg"W/PKK/5"cpf"W/PKK/6"dcpfu" wukpi"vjg" ykfguv"ejcppgn"dcpf ykfvju"rgt o kvgf"wpfgt"vjg"KGGG": 24033"uvpcfctf<sup>0</sup>" Y g"uggm"eq o o gpv"qp"vjgug" rtrqrcnu<sup>0</sup>

3: 60Á Protection of Fixed-Satellite Service Operations<sup>0</sup>"Kp"vjg"Hktuv" Tgrqvt"cpf"Qtfgt"kp"vjku" rrtqeggfkipi."y g"fgenkpgf"vq"cfqr"v"UGU"C o gkteq o ou"cpf"Kpvgnuv<sup>0</sup>"uw i i guvkqp"vq"guvcdnuj"j" c" o czk o w o " rgt o kuukdng"ci i tgi cvg"r qygt"nk o kv"htq"W/PKK/6"dcpf"wpnkegpugf"fgxkegu<sup>0</sup>"qrgtcvkqpu"vjcv"y qwnf"dg" o qpkvqtf"cpf"eqpvtnmgf" d { "cp" Cwvq o cvke" Htgswwp { "Eqqf fkpvcqp" \*CHE+"u { uvg o "vq" jgnr"rtqgev" HUU" qrgtcvkqpu<sup>0</sup>" J qy xgt."cu" c" rtgcewvkpct { " o gcuwtg"vq" hwtvjgt"rtqgev" HUU" qrgtcvkqpu"htq o "jct o hwn" kpvgthgtgpeg."y g"rtqrqug"vq"tgswwt" W/PKK/6"dcpf"qwwfqqt"ceeguu"rqkpvu"vq"nk o kv"vjg" o czk o w o "GKTR"cdqxg" c"52"fgi tgg"gnxcvkqp"cping"vq"43"fd o ."y jkej"ku"uk o knct"vq" y jcv"vjg"Eq o o kuukqp"cntgcf { "tgswwt"kp"vjg" W/PKK/3."W/PKK/7."cpf"W/PKK/9"dcpfu"vq"rtqgev" HUU"qrgtcvkqpu<sup>698</sup>"Vjku"um { yctf"tguvtkevku"u j qwnf" c f f tguu"UGU"C o gkteq o ou"cpf"Kpvgnuv<sup>0</sup>"eqpegtpu"cdqw"r qvgpvkn"ci i tgi cvg"kpvgthgtgpeg"htq o "W/PKK/6" dcpf"wpnkegpugf"qrgtcvkqpu<sup>699</sup>"Ukpeg"y g"fq"pqv"gzrgev"qwwfqqt"ceeguu"rqkpvu"vq"tcfkcv"uk ipkhkecpv"r qygt" um { yctf."y g"fq"pqv"dgngxg"vjku"tgswwt" o gpv" y knn"ko rqug" c" dwt fgp"qp"qt"chhgev"vjg"vwnkv { "qh"qwwfqqt" ceeguu"rqkpv" wugtu<sup>0</sup>

3: 70Á Y g"fq"pqv"hkpf"kv"pgeguuct { "vq"rtqrqug"vq"tguvtkev"vjg"r qygt"tcfkcv"wr yctf"htq o "W/PKK/

<sup>695</sup> Yk/Hk"Cmncpep" 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" Pq<sup>0</sup>35/6; .Hktuv" Tgrqvt"cpf" Qtfgt."4; "HEE" Tef"6349\*4236+\*U-NII 5 GHz Report and Order+\*cf flkpi"70: 47/70: 72" I J | "vq"vjg"70947/70: 72" I J | \*W/PKK/5+dcpf"cpf" fghgtkpi" c" fgekukqp"qp" y jvgjt"vq"cnny"wpnkegpugf"fgxkegu"vq"vug"vjg"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."rctcl<sup>0</sup>45\*4238+0

<sup>696</sup> Yk/Hk"Cmncpep"Eq o o gpvu"cv"4/50"

<sup>697</sup> 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."rctcl<sup>0</sup>45\*4238+0"

<sup>698</sup> 69"EHT"ÈÈ"370623\*c+\*3+."370629\*c+\*6+0" See also Unlicensed Use of the 6 GHz Band."GV" Fqemg" Pq<sup>0</sup>3: /4; 7." Tgrqvt"cpf"Qtfgt"cpf" Hwtvjgt" Pqkveg"qh"Rtrqruqf"Twng o cmkpi."57"HEE" Tef"5: 74."5: : 8/ : 9."rctcl<sup>0</sup>; 4\*4242+0"

<sup>699</sup> UGU"C o gkteq o "cpf"Kpvgnuv"Eq o o gpvu"cv"6." : / ; 0"

6"enkpv"fgxkegu"cu"y g"rtqrqug"vq"tgs wktg"htq"qwwfqqt"ceeguu"rqkpvu0" 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"ucvgnkvgu"cr rrtqzk o cvgn{"57.: 22"m o "cdqxg"v j g"gs wcvqt"cpf"uggm"eq o o gpv0" Y g"rtqrqug"vq"nk o kv"wr y ctf" r q y g t"htq o "qwwfqqt" W/PKK/6"ceeguu"rqkpvu" 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 0" 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" 5 2" 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 0" 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 n k 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 0" 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 w g t {"n k h g" c p f" e q o r n {" y k v j" t c f k 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 0" O q t g q x 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 0" 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 0" Y g" u g 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 0"

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 4 2" 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 0" 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" 4 5" f D o | O J | " q t" 5 8" 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" 7 0: 7 2 / 7 0: ; 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 0" Y g" u g g m" e q o o g p v" q p" v j k u" r t q r q u c n 0" 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 0 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 0" 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 0" 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 0"

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 0" 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" 7 0: 7 2 / 7 0: ; 7" I J | " d c p f 0" Y g" u g 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" 7 0: 7 2 / 7 0: ; 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 0" 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 0 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" 5 2" 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 0" 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" 3 9" f D o | 1 4 2" O J | " q t" 7 2" 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" 4 2" f D o | 1 6 2" O J | " \* 3 2 2" o Y +. " 4 5" f D o | 1: 2" O J | " \* 4 2 2" o Y + " c p f" 4 8" f D o | 1 3 8 2" O J | " \* 6 2 2" 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" 4 5" f D o" G K T R 0" Y g" v j g t g h q t g" u g 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" 4 5" f D o" G K T R" r q y g t" n g x g n 0" 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 e n k v {" q t" c w i o g p v g f" t g e 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 p e t p u. " v j c v" k u u w g" k u" q w w 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 4 2. " 4 2 4 2+0"

69: "See oEq 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: 7 2 / 7; 4 7" O J | " D c p f" y k v j" K p v g n 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 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" 3 3 0"

cr rnkcevkqpu"kp" o wej "vjg" y c{ "uk o knct" cr rnkcevkqpu" jcxg" dggp" gpxkukqpgf" wpfgt" vjg" Eq o o kuukapou" 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" rrvpvcn" jct o hwn" kpvgtgtgpeg" vq" hfgtgn" qrgtcvkqpu" rgtukuvu." ctg" vjgtg" 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 dg f f g" i gqncqcvkqp" vgej p q n i { ".eqwnf" cp" crr" qt" fcvdcug" eqppgevkqp" qt" qv jgt" o kvki cvkqp" o gv j qf" dg" wugf" vq" eqpvtn" rrygt" qt" cxqkf" egtvckp" ctgcu" y jgtg" vjg" rrvpvcn" hqt" ecwukpi" jct o hwn" kpvgtgtgpeg" ku" vjg" i tgcvguA" Y g" cnuq" pqvg" vjcv" 7 I CC" tgs w g u v u" 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 I CC" cnuq" uvcvu" 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" eqpfvkqpu" Eq o o gpvgtu" u j qwnf" rtxkfg" vgej p k e c n" 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" hfgtgn" tcfkqncqcvkqp" qrgtcvkqpu" cu" y gnn" cu" vq" cflcegpv" dcpf" E/X4Z" uchgv{ "ugtxkegu" 0"

C. Other Spectrum for ITS

3 : ; 0A Cu" fkuewuugf" kp" vjg" Hktuv" Tgrqtv" cpf" Qtfgt. "vjg" tgeqt" uwr rqtvu" 52" o g i c j g t v | "qh" urgevtw o " cu" uwhhkekgpv" vq" rtxkfg" dcue" uchgv{ "hwpevkqpu" qh" KVU" ewttgpnv{ "fgrnq" { g f" cpf" wpfgt" eqpukfgtcvkqp" kp" vjg" p g c t " h w w t g 0 " E q o o g p v g t u" j c x g " u w i i g u v g f . " j q y 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 0 6:4"

3 ; 2 0 A 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 g i c j g t v | "qh" urgevtw o . " y g" u j q w n f " e q p u k f g t " c n 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 c e v k q p u 0 " 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 " 7 0 ; " 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 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 " 7 0 ; " 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 0 6:5" 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 e j p q n q i k g u " n k m g " N k F C T . " 9 8 / : 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 + 0 6:6" 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 ; 3 0 A R e p c u q p k e " u w i i g u v u " v j c v " j c t p g u k p i " v j g " c f x c p v c i g u " q h " h w n n { " c w v q o c v g f " v t c p u r q t v c v k q p " t g s w k t g u " e q q r g t c v k q p " d g v y g g p " f k h g t g p v " x g j k e n g u " y k v j " f k h g t g p v " n g x g n u " q h " c w v q o c v k q p " c p f " v j g " v t c p u r q t v c v k q p " k p h t c u w t w e w t g 0 6:7" U k o k n c t n { ".vjg" W0U0" FQV" uvcvgf" vjcv" kp/xg" jkeng" ugpuqtu" ctg" uwuegrvkdng" vq" odkpf" urquuo"

6:2" 7 I C C " O c t 0 " ; . 4 2 4 2 " E x P a r t e 0 "

6:3" 7 I C C " P q x 0 " 3 2 . 4 2 4 2 " E x P a r t e 0 "

6:4" See, e.g., "Ngwgt"htq o "Ugcp"V0"Eqp y c{ ".Eqwpugn"vq"vjg"7 I "Cwvq o qv k x g" C u u q e k 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 ; / 3 5 : " \* h k n g f " U g r v 0 " ; . 4 2 4 2 + 0 "

6:5" P E V C " T g r n { " c v " 4 / 6 0 "

6:6" R e p c u q p k e " E q o o g p v u " c v " 3 6 0 "

6:7" R e p c u q p k e " E q o o g p v u " c v " 3 6 0 "

y jgp"vjg{"ctg"qrgrtcvki"qwvukfg"qh"nkpg/qh/uki jv"uegpctkqu<sup>6:8</sup>W0U0" FQV"enck o u"vjcv"vjg"eq o dkpcvkqp"qh" ugpquqtu"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"hwvwtg<sup>6:9</sup>

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"dcpf<sup>6:1</sup> Jqy."kp"rctkewncr."yqwnf"cf"fkvkqpcn"urgetw o "dg"uwgf"vq" ngxgtcig"vjku"vgejppnqi{"cpf"ckf"kp"kvu"fgnrq{ o gpvA"Uj"qwnf"y"fgvgtokpg"vjcv"cf"fkvkqpcn"urgetw o "ku" pggfgf"vq"rtqxfg"cfxcpegf"KVU"cr"rnkecvkqpu." yjcv"urgetw o "dcpf"u"ujqwnf"y"geqpkf"gtA"Qrgp" Vgejppnqi{"Kpukvwvg"cpf"Rwdnke"Mpqqyngfig"jcxg"ogpvkqpgf"vjg"5672/5772"OJ|"dcpf<sup>6:2</sup>Qvjgt" eq o o gpvgtu."nkmg" F{pc o ke"Urgetw o "Cnkcpeg"cpf"PEVC."rtqrqugf"cnnykpi"E/X4Z"vq"qrgrtcvq"kp"vjg"60;" IJ|"dcpf<sup>6:2</sup>Qvjgt"eq o o gpvgtu"rtqxfgf"uk o knct"xkg"yu<sup>6:3</sup>Kp"vjg"kpvtgxpki"rgtkqf"ukpeg"cf"qrkvkqp"qh" vjg"5.9 GHz NPRM."jyqgxgt."vjg"Eq o o kuukqp"jcu"cf"qrvgf"twng"ejcpi"gu"htq"vjg"60;" IJ|"dcpf"vq"cnny" hqt"pqp/rwdnke"uchgv{"qrgrtcvq"cpf"ngcukpi"cttcpi"ogpvu"cpf"jcu"rtqrqugf"cnncqcvkpi"vjg"5067/5077" IJ|" dcpf"htq"hnzkdng/wug"ugtxkeg<sup>6:4</sup> Yg"cnug"pqvg"vjcv"vjg"eq o o gpvgtu"jcxg"ogpvkqpgf"c"oengcp"ujggvö" crrtqcej" yjgp"eqpukfgtkpi"vjg"dguv"urgetw o "dcpf"kp"y"jkej"vq"nqecvq"vjg"rtqrqugf"E/X4Z" qrgrtcvqku<sup>6:5</sup>Qvjgtu"ogpvkqp"cnnykpi"KVU"vq"uwg"hnzkdng"uwg"nkegpugf"qt"wpnkegpugf"urgetw o "kp"vjg" y"cf"qvjgt"vgejppnqikgu"fq<sup>6:6</sup>Eq o o gpvgtu"cf"tguukpi"vjku"kuuwg"ujqwnf"rtqxfg"urgekhe"kphqt o cvkqp" tgi"ctfki"urgetw o "dcpfu"vjcv"eqwnf"uwrrqt"KVU"qrgrtcvqku."vjg"v{rgu"qh"cr"rnkecvkqpu"qt"ugtxkeg"vjg" gpxkukqp"htq"vjcv"rctkewncr"dcpf"cpf"jy"E/X4Z"eqwnf"eqgzku"ykvj"gzkukpi"urgetw o "wugtu"kp"vjcv" dcpf"u<sup>6:7</sup> Yg"cnug"pqvg"vjcv"vjg"eq o o gpvgtu"ujqwnf"eqpukfgt"vjg"rtqrc"cvkqp"ejctcevtg"ku"ku"qh"vjg" urgetw o "vjg"{"kf"gpvkp{"tgn"cvkxg"vq"vjg"vgejppnqi{"pggf"u"qh"KVU"ugtxkeg"u"nqy"ncvgep{"tgnkcdkknk{"pqp/ nkpg"qh"uki"jv"eq o o wpkecvkqpu."rtqeguukpi"ecrcdknkvgku."kpvtgpcvkqpcn"vtgpfu."cpf"tngxcp"uvpcf"tfu"ugvki"p" hcevqtu<sup>6:8</sup>Ctg"vjg"tg"qvjgt"twng"ejcpi"gu"y"geqwnf" o cmg"vq"gpdcng"vg"jkewncr"uchgv{/tngcvgf"cr"rnkecvkqpu"kp" qvjgt"dcpfu"qp"cu"jctgf"dcukuA"

V. PROCEDURAL MATTERS

3;50A Final Regulatory Flexibility Analysis<sup>6:7</sup> Cu"tgswktgf"d{"vjg" Tgi wncvqt{"Hngzkdknk{"Cev"qh" 3;:2\*THC+. cu"ogpfgf."vjg"Eq o o kuukqp"jcu"rtgrctgf"c"Hkpcn" Tgi wncvqt{"Hngzkdknk{"Cpcn"uku" \*HTHC+"tgi"ctfki"vjg"rqukdng"uki"pkhkecpv"geppq o ke"k o rcev"qp"u o cmn"gpvkvgu"qh"vjg"rqnkkgu"cpf"twngu"

<sup>6:8</sup>W0U0" FQV" Tgrn{"cv"380"

<sup>6:9</sup>W0U0" FQV" Tgrn{"cv";0"

<sup>6:1</sup>Fqp"Dwvngt."Hqt" Gzgewkxg" Fktgevt"ht"Eqppgevgf"Xgjkeng"cpf"Ugtxkeg." Yj{" Ygötg" Yqtmkpi" ykvj" Swcneq o o" vq"Gpuwtg"Gxgt{"jki"kp"Ekvku"Urgcmu"vjg"Uc o g"Ncp"wcig."Ogfw o "Lcp";.423;+. "[jvru<|l|ogfw o lekv/qhvq/qttqy|yj|ygtg/yqtmkpi/ykvj/swcneq o o/vq/gpuwtg/gxgt/vjki/kp/ekvku/urgcmu/vjg/uc o g/npci/wci/g/:g2ee3dhh3](http://www.fcc.gov/ohed/lekv/qhvq/qttqy/yj/ygtg/yqtmkpi/ykvj/swcneq o o/vq/gpuwtg/gxgt/vjki/kp/ekvku/urgcmu/vjg/uc o g/npci/wci/g/:g2ee3dhh3):"ceeguuf"Ugrv<sup>6:4</sup>:4242+7 ICC"Eq o o gpvu"cv";/320"

<sup>6:2</sup>Okejcn" Ecnctdgug"cpf" C o kt" Pcut."Qrgp"Vgejppnqi{"Kpukvwvg"cv" Pgy" C o g"tkec."öVjg"70;" IJ|"Dcpf<"Tg o qxkpi" vjg" Tqcfndqem"vq" Iki cdkv" Yk/Hkö"cv"58\*4242+0"

<sup>6:2</sup>F{pc o ke"Urgetw o "Cnkcpeg"Eq o o gpvu"cv"8="PEVC"Eq o o gpvu"cv"4/5."3;0"

<sup>6:3</sup>KVU" C o g"tkec"Eq o o gpvu"cv"33/34="PEVC"Eq o o gpvu"cv"4/5."cpf"3;="Qrgp"Vgejppnqi{"Kpukvwvg"cpf"Rwdnke" Mpqqyngfig"Eq o o gpvu"cv"6/7."48/4;=" Okejcn" Ecnctdgug"cpf" C o kt" Pcut."Qrgp"Vgejppnqi{"Kpukvwvg"cv" Pgy" C o g"tkec."öVjg"70;" IJ|"Dcpf<"Tg o qxkpi"vjg" Tqcfndqem"vq" Iki cdkv" Yk/Hkö"cv"4:/57\*4242+7 F{pc o ke"Urgetw o " Cnkcpeg"Eq o o gpvu"cv"80"

<sup>6:4</sup>Amendment of Part 90 of the Commission's Rules."YR" Fqemgy"Pq<sup>6:7</sup>29/322."Ukzvj" Tgrqtv"cpf"Qtfgt"cpf"Ugxgpvj" Pqvkqg"qh"Rtqrqugf"Twng o cmkpi."HEE"42/359\*tgn/Qev<sup>6:4</sup>4.4242+7 Facilitating Shared Use in the 3100-3550 MHz Band." YV" Fqemgy"Pq<sup>6:3</sup>3;/56:."Tgrqtv"cpf"Qtfgt"cpf" Hwtvjgt" Pqvkqg"qh"Rtqrqugf"Twng o cmkpi."HEE"42/35:.\*tgn/Qev<sup>6:4</sup>4.4242+0"

<sup>6:5</sup>F{pc o ke"Urgetw o "Cnkcpeg"Eq o o gpvu"cv"80"

<sup>6:6</sup>PEVC"Eq o o gpvu"cv"50"

<sup>6:7</sup>See"7" W0U0E"È"8250"

cfqrvgf"kp"vjku"Hktuv"Trgrqv"cpf"Qtfgt." y jke j"ku"hqwpf"kp"Cr r g p f k z" F 0" V j g" E q o o k u u k q p o u" E q p u w o g t" c p f" I q x g t p o g p v c n" C h h c k t u" D w t g c w." T g h g t p e g" k p h q t o c v k q p" E g p v g t." y k m n" u g p f" c" e q r { " q h" v j g" H k t u v" T r g r q t v" c p f" Q t f g t." k p e n w f k p i" v j g" H 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 } 6: 8"

3; 60A Initial Regulatory Flexibility Analysis. o Cu" t g s w k t g f" d { " v j g" T H C." v j g" E q o o k u u k q p" j c u" r t g r c t g f" c p" k p k v k 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 a p q o k e" k o r c e v" q p" c" u w d u v c p v k n" p w o d g t" q h" u o c m n" g p v k v k g u" q h" v j g" r t q r q u c n u" c f f t g u u g f" k p" v j k u" 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" V j g" K T H C" k u" h q w p f" k p" C r r g p f k z" 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 g" K T H C 0" V j g u g" e q o o g p v u" o w u v" d g" h k n g f" k p" c e e q t f c p e g" y k v j" v j g" u c o g" h k n k p i" 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." c p f" v j g { " u j q w n f" j c x g" c" u g r c t c v g" c p f" f k u v k p e v" j c g f k p i" f g u k i p c v k p i" v j g o" c u" t g u r a p u g u" v q" v j g" K T H C 0" V j g" E q o o k u u k q p o u" E q p u w o g t" c p f" I q x g t p o g p v c n" C h h c k t u" D w t g c w." T g h g t p e g" k p h q t o c v k q p" E g p v g t." y k m n" u g p f" c" e q r { " q h" v j k u" H w t v j g t" P q v k e g." k p e n w f k p i" v j g" 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." k p" c e e q t f c p e g" y k v j" v j g" T H C } 6: 9"

3; 70A Paperwork Reduction Act o V j k u" f q e w o g p v" e q p v c k p u" p g y" q t" o q f k h k g f" k p h q t o c v k q p" e q n g e v k q p" t g s w k t g o g p v u" u w d l g e v" v q" v j g" R c r g t y q t m" T g f w e v k q p" C e v" q h" 3; ; 7" \* R T C +." R w d n k e" N c y" P q 0" 326/350" K v" y k m n" d g" u w d o k v g f" v q" v j g" Q h h k e g" q h" O c p c i g o g p v" c p f" D w f i g v" \* Q O D + " h q t" t g x k g y" w p f g t" u g e v k q p" 5729\* f + " q h" v j g" \* R T C 0" Q O D." v j g" i g p g t c n" r w d n k e." c p f" q v j g t" H g f g t c n" c i g p e k g u" y k m n" d g" k p x k v g f" v q" e q o o g p v" q p" v j g" p g y" q t" o q f k h k g f" k p h q t o c v k q p" e q n g e v k q p" t g s w k t g o g p v u" e q p v c k p g f" k p" v j k u" r t q e g g f k p i 0" K p" c f f k v k a p." y g" p q v g" v j c v" r w t u w c p v" v q" v j g" U o c m n" D w u k p g u u" R c r g t y q t m" T g n k g h" C e v" q h" 4224." R w d n k e" N c y" 329/3; ; . " u g g" 66" W 0 U 0 E 0" 5728\* e + \* 6 +." y g" r t g x k q w u n { " u q w i j" v" 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 g e v k q p" d w t f g p" h q t" u o c m n" 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" 47" g o r n q { g g u 0 0" 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 n" 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" 47" 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 V j g" E q o o k u u k q p" j c u" f g v g t o k p g f." c p f" v j g" C f o k p k u v t c v q t" q h" v j g" Q h h k e g" q h" K p h q t o c v k q p" c p f" T g i w n c v q t { " C h h c k t u." Q h h k e g" q h" O c p c i g o g p v" c p f" D w f i g v" e q p e w t u." v j c v" v j k u" t w n g" k u" o c l q t o" w p f g t" v j g" E q p i t g u u k q p c n" T g x k g y" C e v." 7" W 0 U 0 E 0" E": 26\*4-0" V j g" E q o o k u u k q p" y k m n" u g p f" c" e q r { " q h" v j k u" H k t u v" T r g r q t v" c p f" Q t f g t" v q" E q p i t g u u" c p f" v j g" I q x g t p o g p v" C e e q w p c d k n k v { " Q h h k e g" r w t u w c p v" v q" 7" W 0 U 0 E 0" E": 23\* c + \* 3 + \* C + 0"

3; 90A Ex Parte Rules – Permit but Disclose. R w t u w c p v" v q" u g e v k q p" 303422\* c + " q h" v j g" E q o o k u u k q p o u" t w n g u. 6: ; " v j k u" 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" u j c m n" 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 a p u" o c m k p i" e x p a r t e" r t g u g p v c v k q p u" o w u v" h k n g" c" e q r { " q h" c p { " y t k w g p" r t g u g p v c v 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 v 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 v k q p" \* w p n g u u" c" f k h h g t g 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 a 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 v 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 v k q p" o w u v" \* 3 + " n k u v" c m n" r g t u a 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 k 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 v k q p" y c u" o c f g." c p f" \* 4 + " u w o o c t k | g" c m 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 v k q p 0" K h" v j g" r t g u g p v c v 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 v 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 k 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 v 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 k 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 k 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 v k q p u" c p f" o w u v" d g" h k n g f" e q p u k u v g p v" y k v j" t w n g" 303428\* 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" 306; \* 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 k 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 v 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" W 0 U 0 E 0" E" 825\* c + 0" K p" c f f k v k a p." v j g" N o t i c e" c p f" T H C" \* q t" u w o o c t k g u" v j g t g q h + " y k m 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  
6: 9" See 7" W 0 U 0 E 0" E" 825\* c + 0"  
6: ; " 69" E H T" E" 303422\* c + 0"  
6: ; " 69" E H T" E" 303422" e t s e q.



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 ; :0Á Comment Period and Filing Procedures. "Rwtuwcpv"vq"ugevkqpu"30637"cpf"3063 ; "qh"vjg" Eq o o kuukqpou"twngu."69"EHT"ÈÈ"30637."3063 ; . "kpvgtguvgf"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"hnkpi u"o wuv"tghgt"vq"GV" Fqemgv" Pq0"3 ; /35 : 0"

ÉÁ Gngevtqpke"hnktu<"Eq o o gpvu"o c{ "dg"hknfg"gngevtqpkecn{"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"

ÉÁ Rcrgt"Hknktu<"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"hnkpi u"o wuv"dg"cf f tguugf"vq"vjg" Eq o o kuukqpou"Ugetgvct {"Qhhkeg"qh"vjg"Ugetgvct {"Hgfgtcn"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"

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

3 ; :0Á Rgqrng"y kvj" Fkucdknkvgu<"Vq"tgs wguv"o cvgtkcnu"kp"ceeguukdng"ht o cwu"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"

4220Á Cxckncdknkv {"qh" Fqew o gpvu<"Eq o o gpvu."tgrn {"eq o o gpvu."cpf"ex parte"uwd o kuukqpu"y knn" dg"rwdnke {"cxckncdng"qpnkpg"xic"GEHU0722" Y jgp"vjg"HEE" Jgc f swctvgtu"tgrrgpu"vq"vjg"rwdnke."vjgug" fqew o gpvu"y knn"cnuq"dg"cxckncdng"ht"rwdnke"kpurgvkkp"fwtkpi"tg i wnc t"dwukpguu"j qwtu"kp"vjg"HEE" Tghgtgpeg"Egpgvt."Hgfgtcn"Eq o o wpkecvkqpu"Eq o o kuukqp."67"N"Uvtggv"PG." Ycu j kpi vqp."FE""427760"

4230Á 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

4240Á Ceeqt fkip in {" 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"ÈÈ"373." 376\*k+."523."524."525."52 ; . "538."cpf"554."cpf"ugevkqp"30633"qh"vjg"Eq o o kuukqpou"Twngu."69"EHT"ÈÈ"30633."

722" Fqew o gpvu"y knn"i gpgtcnn {"dg"cxckncdng"gngevtqpkecn {"kp" CUEKK."Oketquqh" Y qtf."cpf lqt"Cf qdg" Cetqdcv0"



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"rtqxfg"dgnqy."ku"ghhgevksxg"ukzv{"fc{"u"  
htqo"vjg"fcvg"qh"rdnkecvkqp"qh"gcej"tgurgevksxg"eq o rppgpv"kp"vjg"Hgfgtcn" Tg i kuvgt0"

4250A KV"KU"HWTVJGT"QTFGTGF"vjcv"vjg"Eq o o gpvf o gpvu"qh"vjg"Eq o o kuukqpou"twngu"cu"ugv"hqtvj"  
kp"Cr r g p f k z " C " C T G " C F Q R V G F . " g h h g e v k x g " u k z v { " f c { " u " h t q o " v j g " f c v g " q h " r w d n k e c v k q p " k p " v j g " H g f g t c n " T g i k u v g t . "  
ykvj"vjg"gzegrvkqp"qh"ugevkqp";20594."y jke j"eqpvckpu"pgy"qt" o qfkhkgf"kpht o cvkqp"eqmgevkkp"  
tgswktg o gpvu"vjcv"tgswktg"tgxky" d { " v j g " Q h h k e g " q h " O c p c i g o g p v " c p f " D w f i g v " \* Q O D + " w p f g t " v j g " R c r g t y q t m "  
Tgfwevkqp"Cev0"Vjg"Eq o o kuukqp"fkfgev"vjg"Yktgnguu"Vnggeq o o wpkecvkqpu"Dwtgcw"vq"guvcdnkuj"cpf"  
cppqwpes"vjg"ghhgevksxg"fcvg"qh"ugevkqp";20594"kp"cf"fqew o gpv"rdnkujg"kp"vjg"Hgfgtcn" Tg i kuvgt"chvgt"vjg"  
Eq o o kuukqp"tgegxgu"QOD"cr r t x c n 0"

4260A KV"KU"HWTVJGT"QTFGTGF"vjcv."rwtuwcpv"vq"ugevkqpu"52;"cpf"538"qh"vjg"  
Eq o o wpkecvkqpu"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"cmn"KVU"nkegpugu"kp"vjg"70;" I J | " d c p f " r w t u w c p v " v q " v j g " e q p f k v k q p u "  
urgekkgf"kp"vjku"Hktuv"Trgrqtv"cpf"Qtfgt0"Urgekhecmn{"vjg"Eq o o kuukqp" o qfkhkgu"vjg"nkegpugu"qh"cmn" FUTE"  
kpew o dgpvu"vq"cf"cwvjqt|cvkqp"vq"qrgtcvg"kp"vjg"70: ; 7/70; 47" I J | " d c p f " v q " c p { " T U W " t g i k u v t c v k q p u "  
ewttgpvn{"ncemkpi"cwvjqt|cvkqp"vq"uq0"Kp"cf"fkvkkp."vjg"Eq o o kuukqp"ykn" o qfkh{"cmn" FUTE"nkegpugu"vq"  
rtqxfg"vjcv"chvgt"vjg"gpv"qh"vjg"uwpugv"rgtkqf"vjgkt"cwvjqt|cvkqp"ykn"dg"nk o kvgf"vq"vjg"70: ; 7/70; 47" I J | "  
dcpf0"Vjgug" o qfkhkecvkqpu"ykn"dg"ghhgevksxg"82"fc{"u"chvgt"rdnkecvkqp"qh"vjku"Qtfgt"qh"Rtqrqugf"  
Oqfkhkecvkqp"kp"vjg"Hgfgtcn" Tg i kuvgt="rtqxfgf."j q y g x g t . " v j c v " k p " v j g " g x g p v " v j c v " c p { " K V U " n k e g p u g g . " q t " c p { "  
qvjgt"nkegpugg"qt"rgt o kvvgg"y j q " d g n k g x g u " v j c v " k v u " n k e g p u g " q t " r g t o k v " y q w n f " d g " o q f k h k g f " d { " v j k u " c e v k q p . " u g g m u "  
vq"rtqvuv"vjgug" o qfkhkecvkqpu."uwej"nkegpug" o qfkhkecvkqpu"urgekkgf"jgtgkp"cpf"eqpvguvgf"d{"vjg"nkegpugg"qt"  
rgt o kvvgg"ujcmn"pqv"dg" o c f g " h k p c n " c u " v q " u w e j " n k e g p u g g " q t " r g t o k v v g g " w p n g u u " c p f " w p v k n " v j g " E q o o k u u k q p " q t f g t u "  
qvjgt y k u g 0 " " R w t u w c p v " v q " u g e v k q p " 5 3 8 \* c + \* 3 + " q h " 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 . " 6 9 " W 0 U 0 E 0 " E "  
538\*c+\*3+."rdnkecvkqp"qh"vjku"Qtfgt"qh"Rtqrqugf" Oqfkhkecvkqp"kp"vjg"Hgfgtcn" Tg i kuvgt"ujcmn"eqpvkvvg"  
pqvkhkecvkqp"kp"ytkvpi"qh"qwt"Qtfgt"rtqrqkpi"vjg" o qfkhkecvkqp"qh"vjg"KVU"nkegpugu."cpf"qh"vjg" i tqwpfu"cpf"  
tgcuppu"vjg"ghqgtg."cpf"vjqug"nkegpuggu"cpf"cp{"qvjgt"rcv{"uggmkpi"vq"hkng"c"rtqvuv"rwtuwcpv"vq"ugevkqp"538"  
ujcmn"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."U J C N N U G P F " c " e q r { " q h " v j k u " H k t u v " T r g r q t v " c p f " Q t f g t . "  
Hwtvjgt"Pqvkeg"qh"Rtqrqugf"Twng o cmkpi."cpf"Qtfgt"qh"Rtqrqugf" Oqfkhkecvkqp."kpenwfkpi"vjg"Kpkvkcnc"cpf"  
Hkpcn" Tg i w n c v t { " H n g z k d k n k v { " C p c n { u g u . " 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 l u w t c v k q p 0"

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"vjku"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"WOUE0"È":23\*c+\*3+\*C+0"

"  
" " " " " " HGFGTcn"EQOOwPKECVQPU"EQOO KUUKQP"  
"  
"  
"  
"  
" " " " " " 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" Tg i 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"Kpvgmk i 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" fghkpkvkqpu"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"rqp"vjcv"qrgtcvgu"kp"vjg"70: 72/70: ; 7" I J | " qt"vjg"70; 47/90347" I J | "dcpf."ku"uwr rnkf"rqygt"htq o "c" yktgf"eqppgevkq."jcu"cp"kpvg i tcvgf"cpvgppc."ku" pqv"dcvgt{"rqygtgf."cpf"fqgu"pqv"jcxg"c" ygcvjgtk|gf" gpenquwtg0"Kpfqqt"ceeguu"rqp"fgxkegu" o wuv"dgct" vjg"hqmqykp i "uvcvg o gpv"kp"c"eqpu rkewqwu"nqecvkq"qp"vjg" fgxkeg"cpf"kp"vjg" wugt0u" o cpwcn<"HEE" tg i wncvkqpu"tguvtkev"qrgtcvkq"qh"vjku" fgxkeg"vq"kp fqqt" wug"qp n{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"eqpvtqn"qh"cp"Kpfqqt"Ceeguu"Rqkv."ku"uwr rnkf"rqygt"htq o "c" yktgf"eqppgevkq."jcu"cp"kpvg i tcvgf"cpvgppc."ku"pqv"dcvgt{"rqygtgf."fqgu"pqv"jcxg"c" ygcvjgtk|gf" gpenquwtg."cpf"fqgu"pqv"jcxg"c" fktgev"eqppgevkq"vq"vjg"Kpvgtpg0"Uwdqtfkpcvg"fgxkegu" o wuv"pqv"dg" wugf"vq" eqppgev" fgxkegu"dgvy ggp"ugrctcvg"dwkfkpi u"qt"uvtwevwtg0"Uwdqtfkpcvg"fgxkegu" o wuv"dg"cwvjqtqv"wpfgt" egtvkhkecvkq"rtqegfwtg"kp"rctv"4"qh"vjku"ejcrgt0"Oqfwngu" o c{"pqv"dg"egtvkhkf"cu"uwdqtfkpcvg" fgxkegu0"

U-NII devices0"Kpvgpqpkn"tcfkcvqtu"qrgtcvkpi"kp"vjg"htgswgpe{"dcpf"7037/7057" I J | ."70692/70: ; 7" I J | ." cpf"70; 47/90347" I J | "vjcv" wug"ykgf dcpf"fk i kvcn" o qfwncvkq"vgejpkswgu"cpf"rtqxfg"c"ykgf"cttc{"qh"jki"j" fvc"tcvg" o qdkng"cpf"hkzgf"eq o o wpkecvkqpu"ht"kp fkkfwcnu."dwukpugu."cpf"kpukvwvkqpu0"

60A C o gpf"ugevkq"370629"d{"tgxkukpi"rctv"terju"\*c+\*5+."tgrwdnkujkpi" PQVG"VQ"RCTC I TCR J" \*c+\*5+."tgxkukpi"rctv"terj"\*c+\*34+."tgxkukpi"rctv"terj"\*d+\*6+."tfgukipcvkpi"rctv"terju"\*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"gzeggf"u"8" fDk0" J q y g x g t . " h k z g f " 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 g t " 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 p 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 q 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 n n g f . " v j g " k p u v c n 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 wuv"pqv"gzeggf"42" fD o "g0k0t0r0"kp"cp{"3/o g i c j g t v | "dcpf0"Kp"cf fkvkqp."vjg" o czk o w o "g0k0t0r0"qxgt"vjg"htgswgpe{"dcpf"qh"qrgtcvkqp" o wuv"pqv"gzeggf"58" fD o 0"Kp fqqt"ceeguu" 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 wuv"pqv"gzeggf"36" fD o "g0k0t0r0"kp"cp{"3/o g i c j g t v | "dcpf."cpf"vjg" o czk o w o "g0k0t0r0"qxgt"vjg"htgswgpe{"dcpf"qh"qrgtcvkqp" o wuv"pqv"gzeggf" 52" fD o 0"Enkpv"fgxkegu"qrgtcvkpi"qp" 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"cuwdqt"fkpcvg"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 wuv"pqv"gzeggf"42" fD o "g0k0t0r0"kp"cp{"3/o g i c j g t v | "dcpf."cpf"vjg" o czk o w o "g0k0t0r0"qxgt"vjg"htgswgpe{"dcpf"qh"qrgtcvkqp" o wuv"pqv"gzeggf"58" fD o 0 "

\*x+Kp"vjg"70:72/70: ;7" I J | "dcpf."enkpv"fgxkegu" o wuv"qrgtcvg"wpfgt"vjg"eqpvtqn"qh"cp" kp fqqt"ceeguu"rqkpv"Kp"cm"ecugu."cp"gzegrvkqp"gzkuvu"ht"vtcpu o kvkpi" dtkgh" o guuc" i gu"vq"cp"ceeguu" 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 gcuwtg o gpv0"Vjg" o czk o w o "rqygt"urgetcn"fgpuv{"ku" o gcuwtgf"cu" 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 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 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 n 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 q 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"fgctgug"nkpctn{"vq"cp"g0k0t0r0"qh"/9" fD o l O J |"cv"qt"cdqyg" 70; 47" I J |0"

\*kk+Hqt"ce"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"fgctgug"nkpctn{"vq"cp"g0k0t0r0"qh"/49" fD o l O J |"cv"qt"cdqyg"70; 47" I J |0"

\*kkk+Hqt"ce"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"ce"ngxgn"qh"3708" fD o l O J |"cv"7094" I J |."cpf"htq o"7094" I J |" kpetgcukpi"nkpctn{"vq"ce"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 ykf vj"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 wplckvqpu"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"kpfwvtkncldwukpguu"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 p 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 p 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 p p u g 0 " " N k e p 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 p 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 <sup>6</sup> "	"	"
, , , , , "	, , , , , "	, , , , , "

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

" , , , , , "

360<sup>A</sup> 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+ , , , , "

<sup>32</sup>Htgs 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<sup>A</sup> 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<sup>A</sup> 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 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."Pxcfc"	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 d c u g " y k n " 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 n " 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" vtcupukvqp"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 q p " f g c f n k p g 0 "

\*d+"Eqvkwpgf"qrgtcvqp"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 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+"Tqc f u k f g " W p k v u " \* T U W u + " k p " v j g " 7 : ; 7 / 7 ; 4 7 " 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" gcej" 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 c 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{"tghgtpeg."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"OJ|"dcpf"o wuv"eq o rn{"ykvj"vjg" vgejpkcn"uvcpfctf"Kpuvkvwg"qh"Gngevtkecn"cpf"Gngevtqpkcu"Gpikpggtu"\*KGGG+":24033r/42320"

\*d+"Vjg"uvcpfctfu"tgswtg"kp"vjku"ugevqp"ctg"kpeqtrqtcvgf"d{"tghgtpeg"kpqv"vjku"ugevqp"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 g y t q r q n k v c p " c t g c " p g v y q t m u " o " U r g e k h k e " t g s w t g o g p v u " o " R c t v " 3 3 < " Y k t g n g u u " N C P " O g f k w o " C e e g u u " E q p v t q n " \* O C E + " c p f " R j { u k e c n " N c { g t " \* 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 g 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 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"kpvtqfwvqt{"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"uwej"vk o g"cu"ci tgg o gpvu"dgvy ggp"vjg"Wpkvgf"Uvcvgu"cpf"Ecpcfc"qt"vjg"Wpkvgf"Uvcvgu"cpf"Ogzkeq."cu" cr rnkcedng."dgeo o g"ghhgevkxg"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" hwwwtg"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"cwj 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 kvvki"kp"vjg"7: ; 7/7; 47" O J | "htgswgpe{"dcpf"kp"vjg" Fgfkecvgf"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 r wv."uq"vjcv"ecdng" nquugu"ctg"vcmgp"kp vq"cee qwp0"

\*e+"Hqt" r w r q u g u"qh"vjku"ugevkq p."c" r q tvc dng"wpkv"ku" c"vtcpu o kvvki" f g x k e g" f g u k i p g f"vq" d g" w u g f"uq"v j c v"v j g" t c f k c v k p i" u w t w e w t g" \*u+"q h"v j g" f g x k e g" k u l c t g" y k v j k p"42" e g p v k o g v g t u"q h"v j g" d q f{"q h"v j g" w u g t 0"

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" f g u k i p g f"vq" 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"Kp u k v w w 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"uvc p f c t f u" t g s w k t g f" k p" v j k u" u g e v k q p" c t g" k p e q t r q t c v g f" d {" t g h g t g p e g" k p v q" v j k u" u g e v k q p" y k v j" v j g" c r 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" È" 774\* c+ "c p f" 3" E H T" r c t v" 730" C m" 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." 667" 34v j" U v t g g v" U Y 0." Y c u j k p i v q p." F 0 E 0" 42776" 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 c n" c v" P C T C." e c n n" 424/963/8252" 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 n t n e c v k q p u 0 j v o n 0"

\*3+ : 24033r/4232."KGGG"Uvc p f c t f" h q t" k p h q t o c v k q p" v g e j p q n i {" ó" N q e c n" c p f" o g v t q r q n k v c p" c t g c" p g v y q t m u" ó" U r g e k h k e" t g s w k t g o g p v u" ó" R c t v" 33<" Y k t g n g u u" N C P" O g f k w o" C e e g u u" E q p v t q n" \* O C E+" c p f" R j {" u k e c n" N c {" g t" \*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 g 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" \*4232+0" V j k u" u v c p f c t f"



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"

490<sup>4</sup> C o gpf"Cr rgpfkz"C"vq"rctv";7"d{"tgoqxkpi"vjg"gpvt{"kp"vjg"vcdng"htq"ö;70372;"/"CUVO"  
G4435/25"FUFE"Uvcpfctf0

APPENDIX B

Proposed Rules

Part 15 – Radio Frequency Devices

Vjg"cwvjqtktv"ekvcvkqp"hqt"rctv"37"eqpvkpwgu"vq"tgcfc"cu"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 " 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 | "dcpf."vjg" o czk 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 | "dcpf."vjg" o czk 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" r q k p v " k p " v j g " 7 0 : 7 2 / 7 0 : ; 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"qwfqqt"ceeguu"rqkpv"qrgtcvkpi"kp"vjg"70:72/70: ;7" I J | "dcpf."vjg" o czk 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 | "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 0 " K p " c n 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"qwfqqt"ceeguu"rqkpv"kp" v j g " 7 0 : 7 2 / 7 0 : ; 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"qwfqqt"W/PKK"fgxkegu"kp"vjg"70:72/70: ;7" I J | "dcpf"ykvj"kp" 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 gygtu."ku"pqv"rgt o kvgf0"Vjg"qwwfqqt"W/PKK"  
 gzenwukqp" | qpgu"hqt"gcej"hgfgtcn"hecnkv{"nqecvkqp"ctg"ejctcevgtk | gf"d{"c"egpvt"rqkpv"  
 \*ncvkwvfglnqpi kvwfg+"cpf"tcflku"\*vq"fghkpg" c"ektewnct"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"Ecpexgten."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"Ectqnkpc"	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{"Urcvg"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."Jeyckl"	44/29/57	37:/62/28	6;"
OceFkn."Hnqtkfc"	49/72/59	:4/52/26	7:"
PX"Vguv"Vtckpkpi"Tcpig."Pgxcfc"	59/3:/49	338/32/46	3:6"
Rcvwzgpv"Txgt."Oct{nepf"	5:/38/77	98/47/34	9"
Rgetn"Jctdqt."Jeyckl"	43/43/39	379/79/73	77"
Rknct"Rqkpv."Ecnkhqtpkc"	59/4:/74	344/4:/7;	32"
			7:"
Rqmgf"Hncv."Cncume"	87/29/58	369/4:/43	
Rqtv"Ecpexgten."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"
Ucfnngdwpej"Mg{u."Hnqtkfc"	46/5:/73	:3/58/44	76"
Ucp"Flkiq."Ecnkhqtpkc"	54/65/22	339/33/22	76"
Ucp"Pkeqncu"Kuncpf."Ecnkhqtpkc"	55/36/69	33:/53/29	388"
Vqpqrj"Vguv"Tcpig."Pgxcfc"	59/66/22	338/65/22	6:"
Xcpcfpgdgti."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"Ucufu"Okuukng"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 kuukqp"vntqpin{"tgeq o o gpfu"vjcv"rctkug"o rno{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"chgevr"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."cmn" g o kuukqpu"cv"qt"cdqyg"70: ;7" I J |"ujcmn"pqv"

gzeqgf"cp"qk0t0r0"qh"/7"fD o l O J |"cpf"ujcnn"fgctgucg"nkgpctn{"vq"cp"qk0t0r0"qh"/49"fD o l O J |"cv"qt"cdqxcg"70;47" I J |0"

\*kkk+"Cmm"g o kuukqpu"dgnqy "70947" I J |"ujcnn"pqv"gzeggf"cp"qk0t0r0"qh" 49"fD o l O J |"cv"7087" I J |"kpetgcuksi"nkgpctn{"vq"32"fD o l O J |"cv"709" I J |."cpf"htq o "709" I J |"kpetgcuksi"nkgpctn{"vq"c"ngxgn"qh"3708" fD o l O J |"cv"7094" I J |."cpf"htq o "7094" I J |"kpetgcuksi"nkgpctn{"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"tgc f"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"vj ku" rctv"kp"vjg"7: ; 7/7; 47" I J |"dcpf0"

," , , , , "

80Á C o gpf"ugevkqp";2039;"d{"tgxkukpi"rctci tcr j"\*h+"vq"tgc f"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"vj ku"rctv0"

**Subpart I—GENERAL TECHNICAL STANDARDS**

90Á C o gpf"ugevkqp";20432"d{"tgxkukpi" hqqvpqvg"6"qh"vj g"vcdng"vq"tgc f"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 <sup>6</sup> "	"	
," , , , , "	," , , , , "	," , , , , "

6" EX4Z"Ugtxkeg" Tqc fukfg" Wpkvu" gswkr o gpv"kp"vjg"7: ; 7/7; 47"O J |"dcpf"ku" i qxgtpgf"wpfgt"uwdrc tv" O"qh"vj ku"rctv0"

," , , , , "

:0Á C o gpf"ugevkqp";20435"d{"tgxkukpi" hqqvpqvg"32"qh"vj g"vcdng"kp"rctci tcr j"\*c+"vq"tgc f"cu" hqnnq yu<"

**§ 90.213 Frequency stability.**

\*c+ , , , "

<sup>32</sup>Htgs wgp e{"uvcdkknv{"hqt"E/X4Z"Ugtxkeg" gswkr o gpv"kp"vjg"7: ; 7/7; 47"O J |"dcpf"ku"urgek hkgf"kp"uwdrc tv"O" qh"vj ku"rctv0""Hqt"cmn"qv jgt" gswkr o gpv."htgs wgp e{"uvcdkknv{"ku"vq"dg"urgek hkgf"kp"vj g"ucvkqp"cwvj qtk |cvkqp0"

," , , , , "

**Subpart M—Intelligent Transportation Systems Radio Service**

;0Á C o gpf"ugevkqp";20572"vq"tgc f"cu"hqnnq yu<"

**§ 90.350 Scope.**

V j g"Kpvgmki gpv"Vtcpu rqtvcvkqp"U{uvg o u"\*KVU+"tcfkq"ugtxkeg"ku" hqt"vj g"rwtrqug"qh"kpvg i tcvkpi"tcfkq/dcugf" vge j pnnq i kgu"kpvg"vj g"pcvkqp)u"vtcpu rqtvcvkqp"kphtcuvtewewtg"cpf"vq"fgxgnqr"cpf"ko r ng o gpv"vj g"pcvkqp)u" kpvgnmki gpv"vtcpu rqtvcvkqp"u{uvg o u0"Kv"kpew fgu"vj g"Nqecvkqp"cpf"O qpkvqtkpi"Ugtxkeg"\*NOU+"cpf"vj g"



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"hqvtj"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 kwgfv"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+"qrgtcvkpi "kp"vjg"dcpf"7: ; 7/7; 47"O J | "ujcnn"pqv"tgegkxg"rtqvgevkqp" htq o " I qxgtp o gpv" Tc f k q n q e c v k p p " u g t x k e g u " k p " q r g t c v k p 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 " T U W 0 " " Q r g t c v k p p " q h " T U W " u v c v k p p u " y k v j k p " v j g " | 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 " t g x q m g " n q e c v k p 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 p p c n " V g n g e q o o w p k e c v k p p u " c p f " k p h q t o c v k p p " C f o k p k u v t c v k p p 0"

\*d+"E/X4Z"Tqc fukfg"Wpkvu"\*TUWu+"qrgtcvkpi "kp"vjg"dcpf"7: ; 7/7; 47"O J | "ujcnn"pqv"tgegkxg"rtqvgevkqp" htq o " I q x g t p o g p v " T c f k q n q e c v k p p " u g t x k e g u " k p " q r g t c v k p 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 " E / X 4 Z " u v c v k p p 0 " Q r g t c v k p p " q h " E / X 4 Z " T U W " u v c v k p 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 p 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 { . " q t " t g x q m g " n q e c v k p 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 p p c n " V g n g e q o o w p k e c v k p p u " c p f " k p h q t o c v k p p " C f o k p k u v t c v k p p 0"

" , , , , , "

350A C o g p f " u g e v k p p " ; 20595 " d { " t g x k u k i " v j g " j g c f k p i " c p f " v j g " k p v t q f w e v q t { " v g z v " v q " t g c f " c u "

hqnnq y u<"

§ 90.373 Eligibility in C-V2X."

Vjg"hqnnq y kpi "gpvkvgu"ctg"gnki kdng"vq"jqnf"cp"cwvjqt k | cvkqp"vq"qrgtcvg"Tqc fukfg"wpkvu"kp"E/X4Z"

" , , , , , "

360A C o g p f " u g e v k p p " ; 20597 " v q " t g c f " c u " h q n n q 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"pqp/gzenwukxg" igqi tcr jke"ctgcu0"" I q x g t p o g p v c n " c r 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 c 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 k 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 p p " q h " v j g " g p v k v { 0 " " C n n " q v j g t " c r 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 c r j k e " c t g c " n k e g p u g " h q t " v j g k t " r t q r q u g f " c t g c " q h " q r g t c v k p 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 p p y k f g 0"

\*d+"C r r n k e c p v u " y j q " c t g " c r r t q x g f " k p " c e e q t f c p e g " y k v j " H E E " H q t o " 8 2 3 " y k n n " d g " i t c p v g f " p q p / g z e n w u k x g " n k e g p u g u " h q t " v j g " e j c p p g n \* u + " e q t t g u r q p f k p i " v q " v j g k t " k p v g p f g f " q r g t c v k p p u " \* u g g " E " ; 20592+0""Uwej"nkegpugu"ugtxg" cu"r"rtgtswkuvq"qh"tgikuvgtki"kpfkxfwcn"UWu"nqecvfg" ykvjkp"vjg"nkegpugf" igqi tcr jke"ctgc"fguetkdgf"kp" rctci tcr j "\*"c+"qh"vjku"ugevkqp0""Nkegpuggu" o w u v " t g i k u v g t " g e j " T U W " k p " v j g " W p k x g t u c n " N k e g p u k p i " U { u v g o " \* W N U + " d g h q t g " q r g t c v k p i " u w e j " T U W 0 " " T U W " t g i k u v t c v k p p u " c t g " u w d l g e v . " k p v g t " c n k c . " v q " v j g " t g s w k t g o g p v u " q h " E " 30 ; 4 5 " q h " v j k u " e j c r v g t " c u " c r r n k e c d n g " \* c p v g p p c " u v t w e v w t g " t g i k u v t c v k p p . " g p x k t q p o g p v c n " e q p e g t p u . " k p v g t p c v k p p c n " e q q t f k p c v k p p . " c p f " s w k g v " | q p g u + 0 " " C f f k v k p c n n { . " T U W u " c v " n q e c v k p p u " u w d l g e v " v q " P V K C " e q q t f k p c v k p p " \* u g g " E " ; 20593\*c++" o c { " p q v " d g i k p " q r g t c v k p p " w p v k n " P V K C " c r r t q x c n " k u " t g e g k x g f 0 " " T g i k u v t c v k p p u " c t g " p q v " g h h g e v k x g " w p v k n " v j g " E q o o k u u k p p " r q u u " v j g o " q p " v j g " W N U 0 " " K v " k u " v j g " n k e g p u g g u " t g u r q p u k d k n k v { " v q " f g n g v g " h t q o " v j g " t g i k u v t c v k p p " f e v c d e u g " c p { " T U W u " v j c v " j c x g " d g g p " f k u e q p v k p w g f 0"

\*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 rnkecvkqp"wukpi "qpg"qh"vjg"hqmq ykp i "hqw" eq o o wpkecvkqp" |qpgu<

TUW"encuu"	Oczk o w o "qwwrww"rqygt"*fD o <sup>3</sup>	Eq o o wpkecvkqpu"  qpg"* o gvgtu+
C"	2"	37
D"	32"	322
E"	42"	622
F"	4:0:	3222

<sup>3</sup>"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 yu<

§ 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|qpvca." 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"ujcmm"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 kpi": " o gvgtu"dww"pqv"gzeggf kpi"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 q 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 yu<

§ 90.379 Technical standards for Roadside Units"

\*c+"E/X4Z"Ugtxkeg" TUWu"qrgtcvkpi"kp"vjg"7; 27/7; 47" O J |"dcpf"ujcmm"eq o rn{" ykvj"vjg"X4Z"ukfgnkpmm" ugtxkeg"hq"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" Cmm"cr r t q x g f" o c v g t k c n" ku"cxckncdng"hq"kpurgevkqp"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 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 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{uvg o "Curgevu"\*423: +0""Vjku"uvpcfctf"ku"cxckncdng"htq o "CVKU."3422" I "Uvtggv" P Y "Uwkvg"722." Ycu 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"uwdrcvtv"O"cf f k p i"ugevkqp"; 205:3"vq"tgc f"cu"hqmq yu<

§ 90.381 C-V2X emissions limits."

E/X4Z" Tqcfukfg"Wpkv"\*TUWu+" o wuv"eq o rn{" ykvj"vjg"hqmq ykp i "qww/qh/dcpf" g o kuukqpu"nk o kvu0"

\*c+"Eqpfwefg"nk o kvu" o gcuwtgf"cv"vjg"cpvgppc"kprrwv" o wuv"pqv"gzeggf"<

\*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

3:0Á 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" È"; 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"

3:0Á 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"

420Á 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"

430Á 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"

440Á 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" È"; 20593" q h" v j k u" e j c r v g t+ 0"

450Á 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 c 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 c p u r q t v c v k q p" h w p e v k q p u 0" U g g" È"; 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"gswxncngp"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"oc{"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"wguf"uq"vjcv"vjg"
tcfkcvki"uvtwevtg"\*u+"qh"vjg"fgxkeg"kulctg"ykvj"kp"42"egpvk okvgtu"qh"vjg"dqf{"qh"vjg"wgut0"

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 | "õ"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 | "õ"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 | "õ"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"
X4Z"ukfgnkpm"ugtxkeg"ht"vjku"dcpf"cu"fguetkdgf"kp"vjg"CVKU"vtcpurqgf"uvcpfctfu"qh"vjg"5 IRR"
urgekkecvkqpu"gzegrv"y jgtg"vjgug"twngu"cpf"tg i wncvkqpu"vcmg"rtgefgpeg0"

\*d+"Vjg"uvcpfctfu"tgswtgf"kp"vjku"ugevkqp"ctg"kpqtrqtcv"gd{"tghgtgpeg"kpvt"vjku"ugevkqp"ykvj"vjg"cr rtqxcn"
qh"vjg"FKtgevqt"qh"vjg"Hgfgtcn"TGikuvgt"wpfgt"7"W0U0E0"È"774\*c+"cpf"3"EHT"rctv"730"Cnn"cr rtqxf" o cvgtken"
ku"cxckncdng"ht"kpurgevq"cv"vjg"Hgfgtcn"Eq o o wpeckvqpu"Eq o o kuukq. 667"34vj"Uvtggv"U Y 0."

Y cu 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 t q "
kpurgevq"cv"vjg"pvcqpcn"Ctejxgu"cpf"tgeqtfu"cf okpvvtcvkqp"\*PCTC+0"Hqt"kpht okvq"qp"vjg"
cxckncdknv{"qh"vjku" o cvgtken"cv"pctc."ecnn"424/963/8252"qt"iq"vq"y y y 0cte j k x g u 0 i q x l h g f g t c n /
t e i k u v g t l e h t l k d n g 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{uvgo"Curgevu"\*423:+0"Vjku"uvcpfctf"ku"cxckncdng"htqo"CVKU."3422" I"Uvtggv"PY"Uwkyg"722."Ycujkpi vqp."  
F0E0"42227."[jwru<liy y \(cvku\)qtilfgeuvqglfghewv0curz0](#)

4;0Å C o gpf"Cr rgpfkz"C"vq"rctv";7"d{"tgoqxkpi"vjg"gpvt{"kp"vjg"vcdng"htq"ö;70372;"/"CUVO"  
G443/25" FUTE"Uvcpfctf0ö0



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"o gicjgtv|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"o c f g" cxkncdng"kp"vjg"6 GHz Report and Order"y knn"dg"wguf"cu"swkenn{"cpf"jgcxk{"cu"vjg"urgetvto"o c f g" cxkncdng"jgtg"kp"urkvq"qh"o qtg"uvtkpi"gpv"rqygt"nk o kvcvkpu"cetquu"vjg"8" I J | "dcpf"cpf"kvu"rvgpvkcm{" nqpi g t"cf qrvkq"vk o guecng03""Cf fkvkqpcn{"."eq o o g p v g t u"j c x g"p q v g f"v j c v"w p n k e g p u g f"u r g e t v t o" k p"v j g"n q y g t" 67"o g i c j g t v | "n k m g n {" q h h g t u"p w o g t q w u"d g p g h k v u"v q"e q p u w o g t u." y j q"w u g" Y k / H k"v q"q h h / n q c f"v t c h h k e" c p f" d g p g h k v" h t q o" v j g" x c t k q w u" c r r n k e c v k p u" v j c v" Y k / H k" g p c d n g u" k p." c o q p i" q v j g t" c t g c u." c i t k e w n v w t g." g f w e c v k q p." c p f" o g f k e k p g 0" J q y g x g t." f w g" v q" c" n e m" q h" s w c p v k h k c d n g" f c v c" q p" v j g u g" x c t k g f." u q o g v k o g u" q p n { / p c u e g p v" d g p g h k v u." y g" c t g" w p c d n g" v q" e q p u t w e v" t g n k c d n g" s w c p v k v c x g" g u v k o c v g u" q h" c u u q e k c v g f" u w t r n w u 4" J q y g x g t." y g" h k p f" v j c v" v j g" c f f g f" I F R" c u u q e k c v g f" y k v j" v j g" 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 t" e w u v q o g t u" c t g" u w d u v c p v k c n." g x g p" y j k n g" g z e n w f k p i" v j g" c f f k v k q p c n" g e q p q o k e" x c n w g" q h" Y k / H k" u w r r q t v g f" c e v k x k v k g u" v q" e q p u w o g t u 0"

40A Yg"ecnewncvg"vjg"eqpvtkdvwkq"vq" I FR"qh"vjg"wpnkegpugf"70;" I J | "urgetvto" wukpi"v y q" cr r t q c e j g u" v j c v" g u v k o c v g" v j g" r t g u g p v" x c n w g" q h" c f f k v k q p c n" Y k / H k" v t c h h k e" h t q o" p g y" 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 t" e w u v q o g t u" q x g t" v j g" r g t k q f" 4245/4247 5" k p" q w t" d c u g n k p g" o q f g n." y g" c u u w o g" v j c v" 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" 67" o g i c j g t v | " q h" 70;" I J | " u r g e t v t o" y k n n" g p c d n g" Y k / H k" w u g t u" q h" v j g" 406" I J | . 70372/70472 \* W / P K K / 3 + . " c p f" 70947/70 : 72" I J | \* W / P K K / 5 + . " c p f" 8" I J | " d e p f u" v q" c e e g u u" c p" c f f k v k q p c n" 382 / o g i c j g t v | " e j c p p g n" e q o r c t g f" v q" v j g" u g x g p" v j g { " y q w n f" q v j g t y k u g" j c x g." c 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" e q o r c t g f" v q" v j g" 38" v j g { " y q w n f" q v j g t y k u g" j c x g." v y q" c f f k v k q p c n" 62 / o g i c j g t v | " e j c p p g n u" e q o r c t g f" v q" v j g" 56" v j g { " y q w n f" q v j g t y k u g" j c x g." c p f" v j t g g" c f f k v k q p c n" 42 / o g i c j g t v | " e j c p p g n u" e q o r c t g f" v q" v j g" 93" v j g { " y q w n f" q v j g t y k u g" j c x g 0 6 " C f f k v k q p c n { . " 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" q w v r c e g" e c r c e k v { . " 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" 70;" I J | " u r g e t v t o" y k n n" d g" h w n n { " w u g f" d { " e q p u w o g t u." k o r n { k p i" 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 t v k p q" 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 t v t 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 7"

50A Traffic Increase Calculation 0" Qwt"dcugnkp"cuuw o rvkqpu"ko rn{"vjcv"vjg"ugxgp"382/

3"See Ngwgt"htq o" Gnk | cdgvj" Cpftkq. "Ugpkqt" Xkeg"Rtgukf"gpv. "Tg i wncvqt {" Chhcktu. "Ejctvgt. "vq" Octngpg" J 0" Fqtej. " Ugetgvct {" HEE. "GV" Fqemg" Pq 0 3 ; / 35 : . " c v" 4 \* h k n g f" L w n { " 4 . 4242+0"

4"Vjg"enquguv"gzco"rng"kp"vjg"geqqp o ke"nkvgtcvwtg"vjcv"eqwnf"jgnr"rww"ce"eqpuw o gt"egpvtkc"xcnwg"qp"geej" I D"ku"c"4238" uwwf {" d {" Pgxq. "Vwtpgt"cpf" Yknnk o u. "dww"vjg"vgzv"fqgu"pqv"rtqxfk"gpqwi"j"lphqt o cvkqp"htq"vjg"Eq o o kuukqp"vq" tgetcvg"kvou"tguwv"cpf"kvu"fcvc"ku"qww"fcvgf 0" Cxkx" Pgxq. "Lqj p" N0" Vwtpgt. "cpf" Lqpcv j cp" Y 0" Yknnk o u. "Usage-based pricing and demand for residential broadband." : 6" Geqqp o g y t k e c \* 4238+ \* Pgxq"gv"cn 0" Uvwf { + 0" Vjg" Pgxq"gv"cn 0" Uvwf { " f k x k f g u" k v u" c o" r n g" q h" j q w u g" j q n f u" k p v q" 38 : 29" v { r g u" c p f" y k v j" c" f k h h g t g p v" f q m c t" x c n w g" h q t" I D" e q p u w o g f" h q t" g e e j . " i k x g p" c" f c v c" f q y p n q c f" u r g g f" c p f" c" e q p u w o r v k q p" n g x g n" q h" f c v c 0" P g x q" g v" c n 0" U v w f { . " c v" 645 . " 64 : 0" J q y g x g t . " v j g" P g x q" g v" c n 0" U v w f { " f q g u" p q v" r t q x k f g" v j g u g" x c n w g u" q t" k p h q t o c v k q p" q p" g x g t { " v { r g . " u q" v j g" E q o o k u u k q p" e c p p q v" f g v g t o k p g" j q y" c f f k v k q p c n" x c n w g" y q w n f" k p e t g c u g" y k v j" o q t g" f c v c" e q p u w o r v k q p 0" H w t v j g t . " v j g" u w f { " k u" d c u g f" q p" f c v c" h t q o " O c { " 4233" v q" L w p g" 4234 . " y j g t g" e q p u w o g t" x c n w g" h q t" f c v c" y q w n f" d g" n q y g t" f w g" v q" c" n q y g t" s w c n k v { " c p f" x c t k g v { " q h" q p n k p g" c e v k x k v k g u" c p f" c r r n k e c v k p u" c p f" n q y g t" h c o k n k c t k v { " y k v j" v g e j p q n i { 0" H q t" v j g" o q u v" e q o o q p" v { r g" q h" e q p u w o g t" \* 4 : " q h" v j g" u c o r n g . " P g x q" g v" c n 0" U v w f { " c v" 64 ; / 652 . " c p f" v { r g / u r g e k h k e" r c t c o g v g t u . " P g x q" g v" c n 0" U v w f { . " U w r r n g o g p v" c v" 33 + . " c u u w o k p i" c p" w p n k o k v g f" r n c p . " c p f" y k v j" 3" I d r u" f q y p n q c f" u r g g f" \* h c u v g t" u r g g f u" k p e t g c u g" f c v c" e q p u w o r v k q p" k p" v j g" o q f g n + . " v j g" g z r g e v g f" I D" e q p u w o g t" o q p v j n { " y q w n f" d g" 7409" I D" \* g s w c v k p 4 . " P g x q" g v" c n 0" U v w f { " c v" 647+0" Y g" g u v k o c v g" v j c v" v j g" c x g t o i g" j q w u g" j q n f" c n t g c f { " e q p u w o g i" 34408" I D" k p" 4239" \* i n f r a" H k i w t g" E / 4 + . " u w i i g u v k p i" v j c v" v j g" P g x q" g v" c n 0" U v w f { " j c u" d g g p" q w r c e g f" d { " e j c p i g u" k p" v g e j p q n i { " c p f" e q p u w o g t u" v c u g u 0"

5"Vjku"lpenwfgu"qwt"dcugnkp"cr rrtqcej"cnqpi"ykvj"cp"cr rrtqcej" wukpi"cnvgtpcvkxg"uqwtegu"qh"tgxgpwg"fcvc 0"

6"Supra"rtct 0"356"6 GHz Report and Order. "57"HEE" Tef"cv"5; 24. "Vcdng"80"

7"Supra"rtct 0"356 0"

ogicjgtv|ejcppgnu"nqecvfgf"kp"vjg"8" I J |"dcpf"y qwnf"dg"cwio gpgvgf"d{"pgy"382/ogicjgtv|"Ejcppgn"385"  
 eq o rtkugf"qh"337"ogicjgtv|"qh"W/PKK/5"urgetwo"cpf"vjg"nqygt"67"ogicjgtv|"kp"vjg"70;" I J |"dcpf"W/  
 PKK/6+0"Cuuw o kpi"vjcv"Ejcppgn"385"y qwnf"dg"hwmm{"wugf."vtchhke"y qwnf"kpetgcug"d{"tqwi jn{"36 ' 0"  
 Cnygtpcvkxgn{"vjg"ukzvggp":2/ogicjgtv|"ejcppgnu."kpenwfkpi"W/PKK/3"Ejcppgn"64."W/PKK/5"Ejcppgn"377."  
 cpf"hwqvtvggp"ejcppgnu"kp"vjg"8" I J |"dcpf."y qwnf"dg"cwio gpgvgf"d{"pgy":2/ogicjgtv|"Ejcppgn"393"  
 eq o rtkugf"qh"vjg"wr rgt"57"ogicjgtv|"qh"W/PKK/5"urgetwo"cpf"vjg"nqygt"67"ogicjgtv|"kp"vjg"70;" I J |"  
 dcpf"W/PKK/6+0"Cuuw o kpi"vjcv"Ejcppgn"393"y qwnf"dg"hwmm{"wugf."vtchhke"y qwnf"kpetgcug"d{"tqwi jn{"8 ' 0"  
 Rtqeggf kpi"uk o knctn{"hqt"nqygt"dcpf ykfvj"ejcppgnu."y g"hkpf"vjcv"vjg"cf fkvkqpcn"70;" I J |"urgetwo"y qwnf"  
 kpetgcug"vtchhke"d{"8 ' "y jgp"wugf"d{"62/ogicjgtv|"ejcppgnu"cpf"6 ' "y jgp"wugf"d{"42/ogicjgtv|"  
 ejcppgnu0"

60A Y g"cuuw o g"vjcv"fwtkpi"vjg"rgtkqf"4245/4247."52 ' "qh"vtchhke"y kmn"qeewt"qxgt"382/  
 ogicjgtv|"ejcppgnu."72 ' "qxgt":2/ogicjgtv|"ejcppgnu."cpf"32 ' "gcej"qxgt"62/"cpf"42/ogicjgtv|"  
 ejcppgnu08" Y g"pqv"vjcv"qwt"wuq"cpf"fkvtdkdwkqpcn"cuuw o rvkqpu"ngcf"vq"jki jn{"eqpugtvcvkxg"guvk o cvg"qh"vjg"  
 tgnkpeg"qp"70;" I J |"ejcppgnu"tgnckxg"vq"qvjgt"uwvfkgu09"Dcugf"qp"qwt"cuuw o rvkqpu."y g"ecnewncvg"c"  
 ygkijvgf"vtchhke"kpetgcug"qh":06 ' 0:" Y g"rtqxfkfg"fgvckngf"ecnewncvkqpu"kp"Hki wtg"E/30"

Fig. C-1: Detailed Traffic Calculations

Variables	Values	Note
*c+	' "Vtchhke"qxgt"42"O J  "Ejcppgnu"y lq"Qtfgt"	32 ' " Table 12 in the ECC Report 302
*d+	' "Vtchhke"qxgt"62"O J  "Ejcppgnu"y lq"Qtfgt"	32 ' " Table 12 in the ECC Report 302
*e+	' "Vtchhke"qxgt":2"O J  "Ejcppgnu"y lq"Qtfgt"	72 ' " Table 12 in the ECC Report 302
*f+	' "Vtchhke"qxgt"382"O J  "Ejcppgnu"y lq"Qtfgt"	52 ' " Table 12 in the ECC Report 302
*g+	Gz"Cpvg"42"O J  "Ejcppgnu"	93"
*h+	Gz"Cpvg"62"O J  "Ejcppgnu"	56"
*i+	Gz"Cpvg":2"O J  "Ejcppgnu"	38"
*j+	Gz"Cpvg"382"O J  "Ejcppgnu"	9"
*k+	Gz"Rquv"Rqnke{"C f fkvkqpcn"42"O J  "Ejcppgnu"	5"
*l+	Gz"Rquv"Rqnke{"C f fkvkqpcn"62"O J  "Ejcppgnu"	4"
*m+	Gz"Rquv"Rqnke{"C f fkvkqpcn":2"O J  "Ejcppgn"	3"
*n+	Gz"Rquv"Rqnke{"C f fkvkqpcn"382"O J  "Ejcppgn"	3"
*o+	' " I tqyvj"kp"YkHk"Vtchhke"	:064 ' " (a)×(i)/(e)+(b)×(j)/(f)+(c)×(k)/(g)+(d)×(l)/(h)

70A Valuing the Increase in Traffic0"Hqt"qwt"hktuv"cr r tqcej"vq"ecnewncvg"vjg"eqpvtkdwkqp"vq"  
 I FR"qh"cf fkvkqpcn"vtchhke."y g"gzvtrcqnvcg"vjg"Egguwu"Dwtgcwou"pcvkqpcn"tgxgpwgu"pw o dgt"hqt"hkzgf"Kpvgtpgv"  
 ugtxkegu"dgv y ggp"vjg"hwvtvj"swctvgt"qh"4238"cpf"vjg"hwvtvj"swctvgt"qh"4242"vq"vjg" {gct"42470:"Vjgug"ctg"vqcn"

8" Y g"fq"pqv"jcxg"fcvc"qp"rtgekug"vtchhke"fkvtdkdwkqp"qxgt"ejcppgnu"qh"fkhhgtgvp"dcpf ykfvju"cpf"kpugvcf"tgn{"qp"  
 rtgfkevkqpu"htq o"c"tgegpv"Gngvtpkpe"Eq o o wpkecvkqpu"Eq o o kwvgg"tgrqt0"Gngvtpkpe"Eq o o wpkecvkqpu"Eq o o kwvgg."  
 GEE"Trgrqv"524."cv"44"Oc{"4;."423;+."<http://www.fcc.gov/edocs/oc/2020/20200424/2020042401.pdf>  
[57h:lGEE'42Tgrqv'425240rfh0](https://www.fcc.gov/edocs/oc/2020/20200424/2020042401.pdf)

9"See, e.g.."TCPF"70;" I J |"Uvwf {"cv"43/44-"4242"YkHkHqt yctf"Uvwf {"cv"490"

:"Qwt"rgteppicg"kpetgcug"ecnewncvkq"fqgu"pqv"fktegnv{"kpeqtrqtcvg"ejcppgn"dcpf ykfvju0"Kpugvcf."ejcppgn"  
 dcpf ykfvju"ctg"ko nkekv"kp"qwt"cuuw o rvkqpu"cdqww"vtchhke"rtkvt"vq"vjg"70;" I J |"urgetwo"o dgkpi"tgrwtrqugf0"

:"Gctnktg"fcvc"gzkuvu."dwy"56/4238"uvctu"e"fqy p yctf"vtgpf"vjcv"eqpvkpwgu"wpvkn"53/42420"D {"kpeqtrqtcvki"qpn {"  
 fgenkpi"tgxgpwgu."qwt"gzvtrcqnvcg"ku"eqpugtvcvkxg."nkmgn {"wpfgtguvk o cvkpi"vjg"eqpvtkdwkqpu"vq" I FR0" Y g"wuq"vjg"  
 vk o g"ugtgu"htq"o Yktgf"Vngvq o o wpkecvkq"ECTktgu.0"PCKEU"eqfg"7393"tgrqtvgf"htq o"4232/423;0"Wpvkvgf"Uvcvgu"  
 Egguwu"Dwtgcw."Dwukpguu"cpf"Kpfwvvt {"Vk o g"Ugtku"Vtgpf"Ejctvu"ceeguugf"Lwn {"52."4242+."

\*eqpvkpwgf í 0"

tgxgpwgu."uq"y g"o wvkrn{"v j g o "d {"v j g"rtqlgevgf"tcvq"qh"W0U0" Yk/Hk"vtchhke"qxgt"vqvcn"W0U0"Kpvgtpgv"vtchhke<sup>32</sup>"" Y g"o wvkrn{"v j g"tguwnvki"rtqfwev"d {" :06 ' "vq"hkpf"v j g"cf fkvkqpcn" I FR"rtqfwegf"d {"tgrwtrqukpi"v j g"70;" I J |"urgetw o 0"Qxgt"v j g" {gctu"4245/4247."v j ku"o qwpvu"vq"o r t g u g p v"xcnwg"qh"&560: "dknkp"wkup i"o"9 ' "fkueqwpv"tcvg"cpf"o r t g u g p v"xcnwg"qh"&5; "dknkp"wkup i"o"5 ' "fkueqwpv"tcvg<sup>0</sup>"" Y g"r tqxkf"fgvckngf" ecnecwvckqpu"kp"Hkiwtg"E/4"tqyu"\*f+"vq"\*j+0

80A Hqt"v j g"ugeqpf"cr r t q c e j ." y g"qdvckp"v y q"cnvgtpcvkg"guvk o cvgu"qh"v j g"r t k e g"r g t" I D"hqt" hkzgf"dtqf d c p f"dcugf"qp"fkhhgtgpn"dcugnkp"gu"v j g"cxgtc i g"hkzgf"dtqf d c p f"r t k e g<sup>0</sup>"" Y g"o wvkrn{"gce j"qh" v j g u g" d {"g u v k o c v g u"q h"v j g"kp 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"70;" I J |"u r g e 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"&20561 I D."v j g"cxgtc i g"hqt"hkzgf"W0U0" dtqf d c p f"r n c p u"g u v k o c v g f" d {"v j g"Eq o o k u u k q p"k p"v u"423: "k p v g t p c v k q p c n" D t q f d c p f" F c v c" T g r q t v" \* K D F T +<sup>033</sup>"" V j k u"r t k e g" f g t x g u" h t q o" d t q f d c p f" r n c p" f c v c" e q m g e v g f" k p"4239."uq"y g"o wvkrn{"v j g"r t q l g e v k p" q h"v j g"Eqpuw o g t"Rtkeg"Kpfgz"ERK+"hqt"okpvgtpgv"ugtxkegu"cpf"ngvevtpke"kpht o cvkqp"r tqxkf g t u l o<sup>34</sup>"" Dgecwug"v j g"o wvkrn{"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 p i ." y g" f k x k f g" k v" d {"c"r t q l g e v k 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"o"r g t" f q m c t"r g t" I D"r t k e g<sup>035</sup>"" 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"4242" 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"Eq 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<sup>36</sup>""k p"v j c v" f c v c."v j g"cxgtc i g"o q p v j n {"r t k e g"ku"&9;089"r g t"o q p v j"r g t"j q w u g j q n f."37"y j k e j"y g"o wvkrn{"w u k p i"q w t"r t q l g e v k p u"q h"v j g"K p v g t p g v"ERK"cpf"v j g p" f k x k f g" d {"q w t"r t q l g e v k 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<sup>0</sup>"" J q y g x g t." y g"p q v g"v j c v."o C V ( V"y c u"q x g t u c o r n g f" f w g"v q"o"e j c p i g"k p"v j c v" t g r q t v k p i" h q t" H q t" o"699" 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 o" 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 {" .uq"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<sup>038</sup>

[jwrucllyyylegpubu0ixlgeqplewttgpfvcvclfdugctejArtqitc o ?SUU \(wvctv f gct?4232 \( g p f f g c t?4242 \( ecvge i q t k g u?73 93V \( f c v c V f r g ? S T G X \( i g q N g x g n ? W U \( p q v C f l w u v g f ? 3 \( u w d o k v ? I G V - F C V C \( t e n g c u g U e j g f w n g f ? \)](#)

<sup>32</sup> Y g"uug"EKUEQ"guvk o cvgu"qh"4239"cpf"4244"EKUEQ"vqvcn"Kpvgtpgv"cpf" Yk/Hk"vtchhke"cpf"gzvtrqncvg"v j g u g"p w o d g t u" v q"v j t q w i j" {g c t"4247<sup>0</sup>""EKUEQ."XPK"Eq 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: +."jwrucllyyylekueqleq o lel f c o l o l g p a w u l u q n w k 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 o r f h<sup>0</sup>""

<sup>33</sup> International Comparison Requirements Pursuant to the Broadband Data Improvement Act." I P" Fqemg v" P q l<sup>0</sup>39/ 3; ; ."Ukzv j" T g r q t v."54" H E E" T e f"; 9: ."3257."Vcdng"5<sup>0</sup>

<sup>34</sup> Y g"nkp g c t n {"g z v t r q n c v g" h t q o"v j g"cxgtc i g"cpwcn"ERK"kp"okpvgtpgv"ugtxkegu"cpf"ngvevtpke"kpht o cvkqp"r tqxkf g t u l o<sup>0</sup> W0U0"Dwtgcw"qh"Ncdqt"Uvcvkuvkeu."Fcvdcugu."Vcdngu" ( "Ecnecwvctqu"d {"Uwdlgev." [jwrucllfcvcldu0ixlvk o g u g t k e u E W W T 2 2 2 2 U G G G 2 5 A q w r w a x k g y ? f c v c \\* n c u v" x k u k v g f" Q e v<sup>0</sup>49."4242+0](#)

<sup>35</sup> Ceeqt f k p i"v q"o 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."NNE."65034 ' "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<sup>0</sup>""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 {"65034 ' 0""N g v 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/Hk" C n n k c p e g."v q" O c t n g p g" J<sup>0</sup> 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 l<sup>0</sup>3 : / 4 ; 7." C w c e j<sup>0</sup>4" c v" : 6" \*h k n g f" Q e v<sup>0</sup>34."423: +\* Y k/Hk" C n n k c p e g" Q e v<sup>0</sup>34."423: " E x P a r t e" +<sup>0</sup>"" 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" W 0 U 0" 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 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"4238"v q" L w p g"423; "k p"v j g" H k z g f" D t q f d c p f" H q t o"699" c p f" n k p g c t n {"g z v t r q n c v g f"v q"4247<sup>0</sup>

<sup>36</sup> HEE."Wtdcp" Tcvg"Uwtxg {"Fvcv"cpf" Tguqwtegu." [jwrucllyyylee0ixlgeqpp o keu/cpcn { vkeulpfwvvt { /cpcn { uku/ f i x k u k p l w t d c p / t c v g / u w t x g { / f c v c / t g u q w t e g u \\* n c u v" x k u k v g f" Q e v<sup>0</sup>49."4242+0](#)

<sup>37</sup> V j k u"k u"o" 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<sup>0</sup>"" H E E." W t d c p" T c v g u" U w t x g {" D t q f d c p f" U w t x g {" T g u w n v u" \*4242+." [jwrucllyyylee0ixlhkngl39822lfqy p n q c f<sup>0</sup>](#) V j g" y g k i j v u" c t g" c' e q" o d k p c v k 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<sup>0</sup>"" H E E."4242" W t d c p" T c v g" U w t x g {" o" H k z g f" D t q f d c p f" U g t x k e g" C p c n {" u k u" \*4242+." [jwrucllyyylee0ixlhkngl39:33lfqy p n q c f<sup>0</sup>](#)

<sup>38</sup> HEE."Wtdcp" Tcvg"Uwtxg {"Dtqf d c p f"Uwtxg {"Tguwvnu" \*4242+." [jwrucllyyylee0ixlhkngl39822lfqy p n q c f<sup>0</sup>](#)

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 c 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"rctkewnt." y g"jcxg"tgrgcvgf"qwt"ecnewncvqpu"ceeqwvki" hqt"cf fkvkqpcn" W/PKK/ 4"ejcppgnu." vjqi"j" y g"pqvg"vjcv" o quv" Yk/Hk" wug"qewtu" ykvj"kp"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"cnvgtpcvkgxgn { "cuuw o g"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. "kpuvgcf"vjcv"vjgtg" ctg"kpvkcnm { "gkijv" /ugxgp"42/ ogicjgtv| "ejcppgnu." hqtv" /vq"62/ ogicjgtv| "ejcppgnu." vjg"v" /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" 4 3 "

320A Kh" y g"kpugcf"cuuw o g"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 " 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" 0"

330A Hkpcnm { . "kp"qwt"dcugnkp"cpnc { uku." y g"cuuw o g"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" 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: "Urgehkhecnm { . " 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 GHz Report and Order"cu" hqnnqyu0" 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 a 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"hkpfkpiu<sup>45</sup>"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"

---

<sup>45</sup>"Supra"pqvg"5870"

Fig. C-2: Benefit Calculations

	Year					Notes		
	2017	2019	2023	2024	2025		2023-2025	
<b>Traffic Projections</b>								
*c+	Vqvcil"Kpvgtpgv"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)	
<b>Revenues Based Analysis</b>								
*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)	
<b>IBDR Based Analysis</b>								
*k+	Wplv"Kpvgtpgv"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"Kpvgtpgv" 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+	Kpvgtpgv"Rtkeg"Ngxgn" *32202"?3; ; 9+ "Rgt" I D"	2084		2044	2043	203;	(i) / (l)	
*p+	Kpvgtpgv"Rtkeg"Ngxgn"Rgt" I D" *3022"?4239+			2058	2055	2053	(m) / Value from 2017	
*q+	Cxgtc i g" Hkzgf" Dtqc f dcp f" Rtkeg" * & l 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)
<b>URS Based Analysis</b>								
*u+	Kpvgtpgv"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" * & l 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 gpf"gf"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"RM+.GV"fqemg"v"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"RM."kpenwfkpi"eq o o gpv"qp"v"jg"KTHC0"Vjku"rtgugpv"Hkpcn"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 rnkcevkqpuo"ceeguu"vq"o kf/dcpf"urgetv o "vq"rtqxf"ngy/equv"yktnguu"eqppgevkxk{"kp"eqwpvnguu"rtqfwewu"wgug"df{"C o gkcecp"eqpuw o gtu"Vq"o ggv"v"jku"fg o cpf."y g"cfqr"v"twngu"vq"tgrwtrqug"v"jg"70:72/70: ;7" I J | "rtqvkqp"qh"v"jg"70; " I J | "dcpf."y jkej"y jgp"cf f"gf"v"jg"cf lcegpv"urgetv o "cxckncdng"ht"Wpnkegpugf"Pcvkqpcn"Kphqt o cvkqp"Kphtcvtwewwtg"WP/KK+"fgxkegu"dgnqy"70:72" I J | ."ykm"cmnqy"ht"kpctgcugf"jki j/vj tqwi j rww"dtqfcdcpf"wpnkegpugf"cr rnkcevkqpu"kp"urgetv o "v"jcv"ku"ce"eqtge"eq o rppgpv"qh"v"jg"fc{"ou"wpnkegpugf"gequ"uv"o"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"kpvgnk i gpv"vtcpurqtvcvkqp"u"uv"o "KVU+"uchgv{/tgnvcgf"vtcpurqtvcvkqp"cpf"Xgjkewct"eq o o wpkecvkqpu"Vjgtghqg."y g"tgvckp"52"o g i c jgtv | "qh"urgetv o "kp"v"jg"70: ;7/70;47" I J | "rtqvkqp"qh"v"jg"70; " I J | "dcpf"ht"wgug"df{"v"jg"KVU"tcfkq"ugtckeg"K"p"cf fkvkqp."y g"tgswtg"KVU"nkegpuggu"vq"vtcpukvqp"kvu"vge j pgnqi {"htq o "v"jg"fgfkecvgf"Ujqt"Tcpig"Eq o o wpkecvkqpu"FU"TE+"uvcpfctf"v"jg"Egmnwct"Xgjkeng"vq"Gxgt{vj kpi "E/X4Z+"uvcpfctf"K"p"v"jg"Hwtvjgt"Pqkqeg"qh"Rtqrqguf"Twng o cmkpi "Hwtvjgt"Pqkqeg+."y g"rtqrqguf"v"jg"tguqnxg"v"jg"vko kpi."rtqefwtgu."cpf"vge j pkecn"rtc o gvtu"cuuqekcvgf"y kvj"v"jg"vtcpukvqp"qh"v"jg"wr fcvgf"70; " I J | "dcpf"rncp"0"

40A Vjku"Hktuv"tgrqtv"cpf"Qtfgt"cnuq"rtq o qvqu"wpnkegpugf"wgug"qh"v"jg"70:72/70: ;7" I J | "dcpf"cu"uqqp"cu"rquukdng"Y g"cnny"ko o g fkcvg"ceeguu"ht"wpnkegpugf"kp fqq"qr gtcvkqpu"cv"urgekkgf"ngy"ry ygt"ngxgnu+"cetquu"v"jg"70:72/70: ;7" I J | "dcpf"Y jkng"v"jg"Hktuv"tgrqtv"cpf"Qtfgt"y qwnf"pqv"rgt o kv"ko o g fkcvg"wpnkegpugf"qwwfqq"qr gtcvkqpu"cetquu"v"jg"70:72/70: ;7" I J | "dcpf."tgswguvu"vq"cmnqy"ht"qwwfqq"wpnkegpugf"qr gtcvkqpu"y qwnf"dg"eqpukfgt"v"jg"qwt"gzkukvpi"tgiwncvqt{"rtqeguu."y jkej"y km"dg"eqqf kpcvgf"y kvj"v"jg"Pcvkqpcn"Vng"eq o o wpkecvkqpu"cpf"Kphqt o cvkqp"cf o kpkuvtcvkqp"PVKC+"vq"gpuwtg"v"jg"hg fgtcn"kpew o dgpv"ctg"rtqvevgf"htq o "jct o hwn"kpvgthgtgpeg"K"p"v"jg"Hwtvjgt"Pqkqeg."y g"rtqrqguf"v"jg"guvcdku j"v"jg"twngu"ht"hwmm"ry ygt"qwwfqq"wpnkegpugf"qr gtcvkqpu"kp"70:72/70: ;7" I J | "dcpf"0"

B. Summary of Significant Issues Raised by Public Comments in Response to the IRFA

50A Vjgtg"y g"tg"pq"eq o o gpvu"hnkgf"v"jcv"urgekhecn"cf f"tguugf"v"jg"twngu"cpf"rqnkegu"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 gpf"gf"v"jg"THC."v"jg"Eq o o kuukqp"ku"tgswtgfd"v"jg"tgu rqp"v"jg"cp"eq o o gpvu"hnkgf"df{"v"jg"E jkgh"Eqwpugn"ht"cf xqce{"qh"v"jg"U o cmn"Dwukpguu"cf o kpkuvtcvkqp"UDC+."cp"v"jg"rtqxf"gf"cf"fgvckngf"uvcv o gpv"qh"cp"ej cpi g"o c f g"v"jg"v"jg"

3"See 7"WOUE"825"Vjg"THC."see 7"WOUE"823"6"834."jcu"dgpp"co gpf"gf"df{"v"jg"U o cmn"Dwukpguu"tgiwncvqt{"Gphqteg o gpv"hcctpguu"Cev"qh"3; ;8"UDTGHG+."Rwd"NO"pq"326/343."Vknv"KK."332"Uvcv"79\*3; ;8+0"
4"See Use of the 5.850-5.925 GHz Band."GV"fqemg"v"3;/35:."Pqkqeg"qh"Rtqrqguf"Twng o cmkpi."56"HEE"Te f"34825\*423; +\*5.9 GHz NPRM+0"
5"See 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 kpkvctvkqp"\*UDC+:"

80A Small Businesses, Small Organizations, Small Governmental Jurisdictions."Qwt"cevkqpu."qxgt"vk o g."oc{"chhgevu"o cmm"gpvkvkgu"vjcv"ctg"ppq"gcukn{"ecvg i qtk|gf"cv"rtgugpv0""Yg"vjg"tghqte"fguetkdg"jgtg."cv"vjg"qwwvg."vjtg"dtqcf"i tqwru"qh"u o cmm"gpvkvkgu"vjcv"eqwnf"dg"fktegn{"chhgevgf"jgtgkpl:"Hktuv."y jkng"vjg"ctg"kp f wuvt{"urgekhe"uk|g"uvcpfctfu"htq"u o cmm"dwukpguu"vjcv"ctg"wg f"kp"vjg"tg i wncvt{"hngzkdnkf{"cpcn{"uku."ceeqt fkipi"vq"fcvc"htq o"vjg"U o cmm"Dwukpguu"Cf o kpkvctvkqp0"\*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 r nq{gg u032""Vjgug"v{"rgu"qh"u o cmm"dwukpguu"tg r t g u g p v"; ; 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{"ocp{"pqv/hqt/rtqkv"gpvgrtkug"y jke j"ku"kp fgrgp fgpvn{"qypgf"cpf"qrgtcvgf"cpf"ku"pqv"fq o kpcpv"kp"kvu"hgknf034""Vjg"Kpvgtpcn"Txgppwg"Ugtxkeg"\*KTU+"wugu"o"tgxppwg"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{"tghgtepeg"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 nknku"owpnguu"cp"ci gpe{.chvgt"eqpuwncvkqp"y kvj"vjg"Qhhkeg"qh"Cfxqece{"qh"vjg"U o cmm"Dwukpguu"Cf o kpkvctvkqp"cpf"chvgt"qr rqtvwpkv{"hqt"rwdnke"eq o o gpv."guvcdnku jgu"ppg"qt"o qtg"fgkpkvkqp"qh"uwe j"vgt o"y jke j"ctg"cr r tqr tkcvq"vq"vjg"cevkxkvkgu"qh"vjg"ci gpe{"cpf"rwdnku jgu"uwe j"fgkpkvkqp\*+\*kp"vjg"Hg fgtcn"tg i kuvgt0"

:"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<|lefpl0cfxqece{0udc0i qx|y r/eqpvglw r nqcfu|423;|2:|45394:7;|Y 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"wg f"vq"fgkpg"cu"o cmm"i qxgtp o gpcn"lwtku fkevkqp0"Vjg"tghqte."vjg"KTU"dgpe j o ctm"jcu"dgpg"wg f"vq"guvk o cvg"vjg"pw o dgt"u o cmm"qti cpk|cvkqp"kp"vjku"u o cmm"gpvkv{"fguetkrvkqp0""Uee"Cpwn"ngtevtqpk"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<|l y y v0ktu0i qxle jctkvku/pqpv/rtqkvu|cppwcn/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"ceeqtkfpi"vq"vjg"tg i kuvtkvqp"cpf"vcz"fcvc"htq"gzg o rv"qti cpk|cvkqpu"cxckncdng"htq o "vjg"KTU0<sup>36</sup>"

: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"wuocpf06<sup>37</sup>"W0U0"Egguwu"Dwtgcw"fcvc"htq o "vjg"4239"Egguwu"qh" I qxgtp o gpvu<sup>38</sup>"kp fkecvg"vjcv"vjg"tg"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"Uvcvgu<sup>39</sup>"Qh"vjku"pw o dgt"vjg"tg"y gte"58.; 53"i gpgtcn"rwrtrug"i qxgtp o gpvu"eqwv{"." o wpkekr cn"cpf"vq y p"qt"vq y pu jkr<sup>3+</sup>"y kv j" rqrwncvkqp"qh"nguu"vjcp"72.222"cpf"34.262"urgekcn"rwrtrug"i qxgtp o gpvu"/"kpfgrgpfpv"ue j qqn"fkuvtkvu<sup>42</sup>"y kv j" gptqnn o gpv"rqrwncvkqp"qh"nguu"vjcp"72.222<sup>43</sup>"Ceeqtkfpi 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 fkevkqp<sup>44</sup>"

:0Á Radio Frequency Equipment Manufacturers (RF Manufacturers)""P gkv jgt"vjg"Eq o o kuukqp"pqt"vjg"UDC"jcu"fgxgnrgrf"cu o cmm"dwukpguu"uk|g"uvcpfctf"cr rnkcedng"vq"Tc fkg"htgswgpe{"Gswkr o gpv"Ocpwhcevtgtu"TH"Ocpwhcevtgtu+""V jgtg"ctg"ugxgtn"cpncq i qwu"UDC"u o cmm"gpvkv{"ecvg i qtkgu"

<sup>36</sup>"See"gzg o rv"Qt i cpk|cvkqpu"Dwukpguu"Ocuvgt"Hkng"Gzvtcev"\*GQ"DOH+."\$EUX"Hkngu"d{"Tg i kqp.\$"[jwruclly y y lktu0i qxl jctkvku/pqp/rtqhkvlvgzg o rv/qti cpk|cvkqpu/dwukpguu/ o cuvgt/hkng/gzvtcev/gq/d o h0](#)"V jg"KTU"gzg o rv"Qt i 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"V jg"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 v j gcu v"ctgc"\*98.: : 8+."Tg i kqp"4/Okf/Cvncpvke"cpf" I tgc v"Ncmgu"ctgc u"\*443.343+."cpf" Tg i kqp"5/ I wnh"Eqcu v"cpf"Rcekhe"Eqcu v"ctgc u"\*495.924+."y jke j"kpew fgu"vjg"eqvkvpgvci"W0U0."Cncumc."cpf" J c y ckk0""V jku"fcvc"fgu"pq"kpew fgu"kpht o cvkqp"ht"Rwgtvq"tkeq"

<sup>37</sup>"7"W0U0E0"È"823\*7+0"

<sup>38</sup>"See"35"W0U0E0"È"3830""V jg"Egguwu"qh" I qxgtp o gpvu"uwtxg{"ku"eqpfwevgf"gxgt{"hxxg"\*7+{"gctu"eq o rknkpi"fcvc"htq" {gctu"gp fki"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](#)"

<sup>39</sup>"See"W0U0"Egguwu"Dwtgcw."4239"Egguwu"qh" I qxgtp o gpvu"o"Qt i 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"

<sup>3+</sup>"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](#)"V jgtg"y gte"4.327"eqwv{" i qxgtp o gpvu"y kv j" rqrwncvkqp"nguu"vjcp"72.2220""V jku"ecvg i qt{"fgu"pq"kpew fgu"uwcwv{"\* o wpkekr cn"cpf"vq y pu jkr+"i qxgtp o gpvu"

<sup>3</sup>"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](#)"V jgtg"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"

<sup>42</sup>"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](#)"V jgtg"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"

<sup>43</sup>"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""V jgtg"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"

<sup>44</sup>"V jku"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"Qt i 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"Vngxkukqp"Dtqcfecuvkpi"cpf"Yktnguu"Eq o o wpkecvkqpu"Gswkr o gpv"  
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vjg"UDC"twngu"ctg"fgvckngf"dgnqy0"

320A Fixed Microwave Services."Oketqycxg"ugtxkegu"kpenwfg"eq o o qp"ecttktg.<sup>45</sup>"rtkxcvg/  
qrgtcvkqpcn"hkzgf.<sup>46</sup>"cpf"dtqcfecuv"cwzknkct{"tcfkq"ugtxkegu<sup>47</sup>"Vjg{"cnuq"kpenwfg"vjg"Wr rgt"Oketqycxg"  
Hngzkdng"Wug"Ugtxkeg.<sup>48</sup>"Oknmk o gvgt"Ycxg"Ugtxkeg.<sup>49</sup>"Nqecn"Owvkrqkpv"FKuvtkdvwkqp"Ugtxkeg"\*NOFU+.<sup>4</sup>"vjg"  
Fki kvcn"Gngevtqpk"Oguuc i g"Ugtxkeg"\*FGOU+.<sup>4</sup>"cpf"vjg"46" I J|"Ugtxkeg.<sup>52</sup>"y jgtg"nkegpuggu"ecp"ejqqug"  
dgy y ggp"eq o o qp"ecttktg"cpf"pqp/eq o o qp"ecttktg"uvcvwu<sup>53</sup>"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"ugtxkegu<sup>54</sup>"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+<sup>55</sup>"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{gg<sup>56</sup>"Hqt"  
vjku"kp fwvut{"W0U0"Egguwu"Dwtgcv"fcvc"hqt"4234"ujqy"vjcv"vjgtg"ygtg";89"hkt o u"vjcv"qrgtcvgf"hqt"vjg"  
gpvktg{"gct<sup>57</sup>"Qh"vjku"vqvcn.";77"hkt o u"jcf"g o r nq{ o gpv"qh"; ; ;"qt"hg y gt"g o r nq{gg"cpf"34"jcf"g o r nq{ o gpv"  
qh"3222"g o r nq{gg"qt" o qtg<sup>58</sup>"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"eqpukfgtg"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{gg."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"UDC0"  
u o cmn"dwukpguu"uk|g"uvcpfctf0"Eqpugswgpvn{"vjg"Eq o o kuukqp"guvk o cvgu"vjcv"vjgtg"ctg"wr"vq"58.92:"

<sup>45</sup>See 69"EHT"rctv"323."uwdrcvtu"E"cpf"K0"

<sup>46</sup>See 69"EHT"rctv"323."uwdrcvtu"E"cpf"J0"

<sup>47</sup>Cwzknkct{"Oketqycxg"Ugtxkeg"ku"i qxgtpgf"d{"rctv"96"qh"Vkvng"69"qh"vjg"Eq o o kuukqp0"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"kpenwfgu" o qdkng"VX"rkemwru."y jkej"tgnc{"  
uk i pcnu"htq o "tg o qvg"nqecvkqp"dcem"vq"vjg"uwvfkq0"

<sup>48</sup>See 69"EHT"rctv"52."

<sup>49</sup>See"69"EHT"rctv"323."uwdrcvtv"S0"

<sup>4</sup>:"See"69"EHT"rctv"323."uwdrcvtv"N0"

<sup>4</sup>:"See"69"EHT"rctv"323."uwdrcvtv" I 0"

<sup>52</sup>"Ugg"idl"

<sup>53</sup>See"69"EHT"ÈÈ"3230755."323032390"

<sup>54</sup>Vjgug"uvcvkukv"ctg"dcugf"qp"cu"tgxkg y"qh"vjg"Wpkxgtuci"Nkegpukpi"U{uvg o"qp"Ugrvg o dgt"44."42370"

<sup>55</sup>See"W0U0"Egguwu"Dwtgcv."2017 NAICS Definition, "517312 Wireless Telecommunications Carriers"\*except  
Satellite+.6"jvrucll y y 0egpuwu0 i qxleik/dkpluuuflpckleupcktejeAeqfg?739534 (ugctej?4239 '42PCKEU '42Ugctejl"

<sup>56</sup>See"35"EHT"È"3430423."PCKEU"Eqfg"739534"\*rtgkxqwu{"739432+0"

<sup>57</sup>See"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."  
jvrucll fvc0egpuwu0 i qxlegfueklvcdngAvgz?GE3473UUU\7 (p?739432 (vkf?GEPUK\G42340GE3473UUU\7 (jkfgrtgx  
ky?hcnuq (xkpvci g?42340"

<sup>58</sup>Idl"Vjg"cxkncdng"W0U0"Egguwu"Dwtgcv"fcvc"fqgu"pqv"rtqxfg"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 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"ugtxkegu<sup>69</sup>"Vjg"crtrtrtkcvg"uk|g"uvcpfctf"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 { ggu<sup>6</sup>:"Hqt"vjku"kpfwuvt{"W0U0"Egguwu"Dwtgcw"fcvc"hqt"4234"ujqy"vjcv"vjggtg"ygtg";89"hkt o u"vjcv"qrgtcvgf"hqt"vjg"gpvktg{"gct<sup>6</sup>:"Qh"vjku"vqvcn.";77"hkt o u" g o r nq { g f " h g y g t " v j c p " 3 . 2 2 2 " g o r n q { g g u " c p f " 3 4 " h k t o u " g o r n q { g f " q h " 3 2 2 2 " g o r n q { g g u " q t " o q t g <sup>72</sup> " V j w u " w p f g t " v j k u " e c v g i q t { " c p f " v j g " c u u q e k c v g f " u k | g " u v c p f c t f . " 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 " Y k t n g u u " 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 " \* g z e g r " U c v g n k v g + " c t g " u o c m m " g p v k v k g u }

370<sup>A</sup> *Automobile Manufacturing.* "Vjku"W0U0"kpfwuvt{"eq o rtkugu"guvcndku j o gpvu"rtk o ctkn {" g p i c i g f " k p " \* 3 + " o c p w h c e w t k p i " e q o r n g v g " c w v q o q d k n g u " \* k 0 g 0 . " d q f { " c p f " e j c u u k u " q t " w p k d q f { + " q t " \* 4 + " o c p w h c e w t k p i " c w v q o q d k n g " e j c u u k u " q p n { <sup>73</sup> " V j g " U D C " j c u " g u v c n d k u j g f " c " u k | g " u v c p f c t f " h q t " v j k u " k p f w u v t { . " y j k e j " k u " 3 . 7 2 2 " g o r n q { g g u " q t " n g u u <sup>74</sup> " 4 2 3 4 " W 0 U 0 " E g g u w u " D w t g c w " f c v c " k p f k e c v g " v j c v " 3 : 7 " g u v c n d k u j o g p v u " q r g t c v g f " k p " v j k u " k p f w u v t { " v j c v " { g c t <sup>75</sup> " Q h " v j k u " p w o d g t . " 3 8 4 " g u v c n d k u j o g p v u " j c f " g o r n q { o g p v " q h " h g y g t " v j c p " 3 . 2 2 2 " g o r n q { g g u . " c p f " 3 3 " g u v c n d 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 <sup>76</sup> " 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 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 m " g p v k v k g u }

380<sup>A</sup> *Internet Service Providers (Non-Broadband).* Kpvtpgv"ceeguu"ugtxkeg"rtqxfkg"uwej"cu" Fkcn/wr"kpvtgpgv"ugtxkeg"rtqxfkg"u"enkpv/uwr"rnkgf"vnggeq o o wpkecvkqpu" eqppgevkqpu"cpf"kpvtgpgv"ugtxkeg"rtqxfkg"u"enkpv/uwr"rnkgf"vnggeq o o wpkecvkqpu"eqppgevkqpu" \*g0i0." fkc 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 m " Q v j g t " V g n g e q o o w p k e c v k q p u <sup>77</sup> " V j g " U D C " j c u " f g x g n q r g f " c " u o c m m " d w u k p g u u " u k | g " u v c p f c t f " h q t " C m m " 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 m " 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 e g e k r v u " q h " & 5 7 " o k m k q p " q t " n g u u <sup>78</sup> " H q t " v j k u " e c v g i q t { . " W 0 U 0 " E g g 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 <sup>79</sup> " 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 "

<sup>69</sup>See "W0U0"Egguwu"Dwtgcw."2017 NAICS Definition, "517312 Wireless Telecommunications Carriers"(except Satellite)." [jwru0lyy0egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprww?739534](http://www.fcc.gov/efiling/egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprww?739534) (ugcte j ?4239- PCKEU-Ugcte j (ugcte j ?4239))

<sup>6</sup>See "35"EHT"E"3430423."PCKEU"Eqfg"739534" \*rtgkxkwun{"739432+0"

<sup>6</sup>See "W0U0"Egguwu"Dwtgcw."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." [jwru0lfvc0legpuwu0iqxlegfueklvcdngAvgzv?GE3473UUU\7\(p?739432\(vk?GEPUK\G42340GE3473UUU\7\(jkfgRtgxky?hcnu0\(xkpvig?42340](http://www.fcc.gov/efiling/egpuwu0iqxlegfueklvcdngAvgzv?GE3473UUU\7(p?739432(vk?GEPUK\G42340GE3473UUU\7(jkfgRtgxky?hcnu0(xkpvig?42340)

<sup>72</sup>Idl"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 " v j g " U D C " u k | g " u v c p f c t f 0 "

<sup>73</sup>See "W0U0"Egguwu"Dwtgcw."2017 NAICS Definitions, "336111 Automotive Manufacturing," [jwru0lyy0egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprww?558333](http://www.fcc.gov/efiling/egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprww?558333) (ugcte j ?4239- PCKEU-Ugcte j (ugcte j ?4239))

<sup>74</sup>See "35"EHT"E"3430423."PCKEU"Eqfg"5583330"

<sup>75</sup>See "W0U0"Egguwu"Dwtgcw."2012 Economic Census of the United States."Vcdng"KF<"GE3453UI4."Manufacturing: Summary Series: General Summary: Industry Statistics for Subsectors and Industries by Employment Size"2012," PCKEU"Eqfg"558333." [jwru0lfvc0legpuwu0iqxlegfueklvcdngAvgzv?GE3453UI4\(p?558333\(vk?GEPUK\G42340GE3453UI4\(jkfgRtgxky?hcnu0\)jwru0lhcevhkpf0legpuwu0iqxldm o mlvcdng13021gpiGEP14234aWU153UI41lpckeu05583330](http://www.fcc.gov/efiling/egpuwu0iqxlegfueklvcdngAvgzv?GE3453UI4(p?558333(vk?GEPUK\G42340GE3453UI4(jkfgRtgxky?hcnu0)jwru0lhcevhkpf0legpuwu0iqxldm o mlvcdng13021gpiGEP14234aWU153UI41lpckeu05583330)

<sup>76</sup>Idl"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 " v j g " U D C " u k | g " u v c p f c t f 0 "

<sup>77</sup>See "W0U0"Egguwu"Dwtgcw."2017 NAICS Definition, "517919 All Other Telecommunications." [jwru0lyy0egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprww?739;3;](http://www.fcc.gov/efiling/egpuwu0iqxleik/dkpluuuflpckeu0pckeu0jAkprww?739;3;) (ugcte j ?4239- PCKEU-Ugcte j (ugcte j ?4239))

<sup>78</sup>See "35"EHT"E"3430423."PCKEU"Eqfg"739;3;0"

<sup>79</sup>See "W0U0"Egguwu"Dwtgcw."2012 Economic Census of the United States."Vcdng"KF<"GE3473UUU\6."Information: Subject Series - Estab and Firm Size: Receipts Size of Firms for the U.S.: 2012."PCKEU"Eqfg"739;3;."

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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"vgejpnq{"qt" c"eq o dkpcvkqp"qh"vgejpnq"kgu082"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"qrgtcvt"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"qrgtcvt"ugtxkpi"hg ygt"vjcp"6:8.682"uwduetkdgtu"ujcmm"dg"fgg o gf" c"u o cmm"qrgtcvt"kh"kvu"cppwcn"tgxgpwgu."y jgp"eq o dkpgf"ykvj"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"pgkjgt"tgsuwgu"pqt" eqmngvu"kpht o cvkqp"qp"y jgvjgt"ecdng"u{uvg o "qrgtcvqtu"ctg"chhknkcvg"ykvj"gpvkkgu"y jqug"i tquu"cppwcn"

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7:"Id0"Vjg"cxckncdng"W0U0"Egguwu"Dwtgcw"fcvc"fqgu"pqv"rtqxfkg" c" o qtg"rtgekug"guvk o cvg"qh"vjg"pw o dgt"qh"hkt o u"vjcv" o gg"vjg"UDC"uk|g"uvcpcfctf0"

7:"See W0U0"Egguwu"Dwtgcw."2017 NAICS Definition, "517311 Wired Telecommunications Carriers,"" [www.fcc.gov/epwu01qxlegfueklvcdngAvgz?GE3473UUU\7\(p?739332\(vkf?GEPUK\G42340GE3473UUU\7\(jkfgRtgxkg y?hcnu0\)](http://www.fcc.gov/epwu01qxlegfueklvcdngAvgz?GE3473UUU\7(p?739332(vkf?GEPUK\G42340GE3473UUU\7(jkfgRtgxkg y?hcnu0))

82"Id."

83"See"35"EHT"E"3430423."PCKEU"Eqfg"739533"\*rtgkxkwun{"739332+0"

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.S0<"2012."PCKEU"Eqfg"739332." [www.fcc.gov/epwu01qxlegfueklvcdngAvgz?GE3473UUU\7\(p?739332\(vkf?GEPUK\G42340GE3473UUU\7\(jkfgRtgxkg y?hcnu0\)](http://www.fcc.gov/epwu01qxlegfueklvcdngAvgz?GE3473UUU\7(p?739332(vkf?GEPUK\G42340GE3473UUU\7(jkfgRtgxkg y?hcnu0))

85"Id. Vjg"cxckncdng"W0U0"Egguwu"Dwtgcw"fcvc"fqgu"pqv"rtqxfkg" c" o qtg"rtgekug"guvk o cvg"qh"vjg"pw o dgt"qh"hkt o u"vjcv" o gg"vjg"UDC"uk|g"uvcpcfctf0"

86"69"W0U0E0"E"765\* o +\*4+="see'also"69"EHT"E"980;23\*g+0"

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"

tgxgpwgu"gzeggf"&472" o knkqp08:""Vj gthgtg." y g"ctg"wpdng"cv"vjku"vk o g"vq"gvk o cvg" y kvj" i tgcvtg" r tgekukqp" vj g"pw o dgt"qh"ecdng"u{uvg o "qrgtcvqtu"vj cv" y qwnf"swcnkh {"cu"u o cmm"ecdng"qrgtcvqtu"wpfgt"vj g" fghkpvkqp"kp" vj g"Eq o o wpkcevkqpu"Cev0"

**E. Description of Projected Reporting, Recordkeeping, and Other Compliance Requirements for Small Entities**

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**F. Steps Taken to Minimize the Significant Economic Impact on Small Entities, and Significant Alternatives Considered**

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qh"vjg"Hktuv"Tgrqtv"("Qtfgt."kpenwfkpi"vjku"HTHC"\*qt"uw o o ctkgu"vjgtgqh+."y knn"cnuq"dg"rwdnkujgf"kp"vjg"  
Hfgtcn"TGikuvgt<sup>93</sup>

<sup>92</sup>See 7 W0U0E0È": 23\*c+\*3+\*C+0"

<sup>93</sup>See 7 W0U0E0È"826\*d+0"

APPENDIX E

INITIAL REGULATORY FLEXIBILITY ANALYSIS

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A. Need for, and Objectives of, the Proposed Rules

30A Kp"3; ; ; ."vjg"Eq o o kuukqp"tgu x t x g f"97"o g i c j g t v | "k p " v j g " 7 0 ; " I J | " d c p f " \* 7 0 : 7 2 / 7 0 ; 4 7 " 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 q 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 { { 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 " 7 0 3 7 2 " I J | " c p f " v j g " n q y g t " g f i g " q h " v j g " 7 0 ; " I J | " d c p f " \* c v " 7 0 : 7 2 " 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 " 7 0 ; " I J | " d c p f " h t q o " 7 0 ; 4 7 " I J | / 9 0 3 4 7 " 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 " 4 2 3 ; . " 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 " 7 0 ; " 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 " 6 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 : 7 2 / 7 0 ; ; 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 " 7 0 : 7 2 / 7 0 ; ; 7 " I J | " d c p f " t g v c k p g f " 5 2 " 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 : ; 7 / 7 0 ; 4 7 " 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 " 7 0 : ; 7 / 7 0 ; 4 7 " I J | " d c p f " c p f " e g c u g " w u g " q h " v j g " 7 0 : 7 2 / 7 0 ; ; 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 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 " 7 0 ; " 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 " 7 0 : 7 2 / 7 0 ; ; 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 8 2 5 0 " V j g " T H C . " s e e " 7 W 0 U 0 E 0 E 8 2 3 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 8 2 5 \* c + 0 "

5 See 7 W 0 U 0 E 0 E 8 2 5 \* c + 0 "

hgfgtcn"qrgtcvkqpu"kp"vjku"urgvtw o0"Vjg"ftchv"cnua"uggmu"vq"guvcdnkuj"rqygt"cpf"g o kuukqp"nk o 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 e 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 p 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"o 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"hgckudng."cp"guvk o cvg"qh" vjg"pw o dgt"qh"u o c m 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 m 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 m n " d w u k p g u u . o " o u o c m n " q t i c p k | c v k q p . o " c p f " o u o c m 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 m 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 m 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 m n " D w u k p g u u " C e v 0 8 " C " o u o c m 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 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 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 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 m 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 m 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 m 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 m 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 m 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 m n " d w u k p g u u " t g r t g u g p v " ; 0 ; ' " q h " c m 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 m n " g p v k v { " f g u e t k d g f " c u " c " o u o c m 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 g 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+\*kpeqtrqtcvkpi"d{"tghgtpeg"vjg"fghkpvkq"qh"ou o c m 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 m 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 m 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 m 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 m 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 v u / P g y / Y k v j / U o c m 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"Id"

33"7"W0U0E0"E"823\*6+0"

ngveqtqpkf"hnkpi"tgs wktg o gpvu" hqt"u o cmm"gzg o rv" qti cpk | cvkqpu<sup>34</sup>"" 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"KTU<sup>035</sup>""

;0A Hkpcmm{ . "vjg"u o cmm"gpvk{ "fguetkdgf"cu" c"ou o cmm" i qxgtp o gpvcn"lwtku fkevkqp<sup>0</sup>"ku" fghkpgf" i gpgtcmm{ "cu"o i qxgtp o gpvu"qh"ekvku. "eqwvkvu. "vq ypu. "vq ypu jkr. "xkmc i gu. "ue jqqn" fkuvtkevu. "qt"urgekcn" fkuvtkevu. "y kvj" c" rqrwncvkqp"qh"nguu"vjcp" hkv{ "vjg"wuvcf<sup>0636</sup>"" W0U0" Egpwu" Dwtgcw" fcvc"htq o "vjg"4239" Egpwu" qh" I qxgtp o gpvu<sup>37</sup>"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"Uvcvgu<sup>38</sup>"" Qh"vjku"pw o dgt"vjgtg" ygtg" 58. ;53" i gpgtcn"rwrtrug" i qxgtp o gpvu"eqwv{ .<sup>39</sup> o wpkekr cn"cpf"vq y p"qt"vq y pu jkr<sup>3</sup>:" y kvj" rqrwncvkqpu"qh" nguu"vjcp"72.222"cpf"34.262"urgekcn"rwrtrug" i qxgtp o gpvu/"kpfgrgpfgpv"ue jqqn" fkuvtkevu<sup>3</sup>:" y kvj" gptqm o gpv"

<sup>34</sup>"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 fkevkqp<sup>0</sup>"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{ "fguetkrvkp<sup>0</sup>""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<| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulcppwcn/ gngveqtqpkf/hknkpi/tgs wktg o gpv/hqt/u o cmm/gzg o rv/qti cpk | cvkqpu/hqt o /; ; 2/p/g/ rquvectf<sup>0</sup>"" 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" hknf<sup>0</sup>"

<sup>35</sup>"See" Gzg o rv" Qti cpk | cvkqpu" Dwukpguu" Ocuvgt" Hkng" Gzvtcev" \*GQ"DOH+. "\$EUX" Hkngu" d{ "Tg i kqp. "\$ jvruc<| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulgzg o rv/qti cpk | cvkqpu/dwukpguu/ o cuvgt/hkng/gzvtcev/gq/d o h<sup>0</sup>"" Vjg"KTU" Gzg o rv" Qti cpk | cvkqp" Dwukpguu" Ocuvgt" Hkng" \*GQ"DOH+" Gzvtcev" rrtqxfg" kphqt o cvkqp"qp" cmm"tg i kuvgtgf"vcz/ gzg o rv"lqp/r tqhkv"qti cpk | cvkqpu<sup>0</sup>"Vjg" fcvc" wknk | g" hqt" rwrtrug"qh"vjg"ku" 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/Cvncpvke"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 ckk<sup>0</sup>"" Vjku" fcvc" fqu"pqv" kpenwfg" kphqt o cvkqp" hqt" Rwgvtq" Tkeq<sup>0</sup>"

<sup>36</sup>"7" W0U0E"È"823\*7+0"

<sup>37</sup>"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 kvj" o46" cpf" o90<sup>0</sup>"" See also Egpwu" qh" I qxgtp o gpvu. "jvruc<| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulgzg o rv/qti cpk | cvkqpu/dwukpguu/ o cuvgt/hkng/gzvtcev/gq/d o h<sup>0</sup>"" Vjg"KTU" Gzg o rv" lqp/r tqhkv" qti cpk | cvkqpu<sup>0</sup>" Vjg" fcvc" wknk | g" hqt" rwrtrug" qh" vjg" ku" 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/Cvncpvke"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 ckk<sup>0</sup>"" Vjku" fcvc" fqu"pqv" kpenwfg" kphqt o cvkqp" hqt" Rwgvtq" Tkeq<sup>0</sup>"

<sup>38</sup>"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<| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulgzg o rv/qti cpk | cvkqpu/dwukpguu/ o cuvgt/hkng/gzvtcev/gq/d o h<sup>0</sup>"" 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+<sup>0</sup>"" See also Vcdng"40" E I 3922QT I 24" Vcdng" PqvguaNqecn" I qxgtp o gpvu" d{ "V{ rg" cpf" Uvcvga4239<sup>0</sup>"

<sup>39</sup>"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<| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulgzg o rv/qti cpk | cvkqpu/dwukpguu/ o cuvgt/hkng/gzvtcev/gq/d o h<sup>0</sup>"" Vjgtg" ygtg"4.327" eqwv{ " i qxgtp o gpvu" y kvj" rqrwncvkqpu" nguu" vjcp"72.222<sup>0</sup>"" Vjku" ecvg i qt{ " fqu"pqv" kpenwfg" uwdqwpv{ " \* o wpkekr cn" cpf" vq y pu jkr+ " i qxgtp o gpvu<sup>0</sup>"

<sup>3</sup>:" See id. at" Vcdng"80" Uwdqwpv{ " I gpgtcn/Rwrtrug" I qxgtp o gpvu" d{ "Rqrwncvkqp/Uk | g" I tqwr" cpf" Uvcv<"4239" JE I 3922QT I 28\_0"" jvruc<| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulgzg o rv/qti cpk | cvkqpu/dwukpguu/ o cuvgt/hkng/gzvtcev/gq/d o h<sup>0</sup>"" Vjgtg" ygtg"3: .94; " o wpkekr cn" cpf" 38.2; 9" vq y p" cpf" vq y pu jkr" i qxgtp o gpvu" y kvj" rqrwncvkqpu" nguu" vjcp"72.222<sup>0</sup>"

<sup>3</sup>:" See id." cv" Vcdng"320" Gng o gpvct{ " cpf" Ugeqpfct{ " Ue jqqn" U{ uv g o u" d{ " Gptqm o gpv/Uk | g" I tqwr" cpf" Uvcv<"4239" JE I 3922QT I 32\_0"" jvruc<| y y y<ktu0 i qxle jctkvku/pqp/r tqhkvulgzg o rv/qti cpk | cvkqpu/dwukpguu/ o cuvgt/hkng/gzvtcev/gq/d o h<sup>0</sup>"" Vjgtg" ygtg"34.262" kpfgrgpfgpv" ue jqqn" fkuvtkevu" y kvj" gptqm o gpv" rqrwncvkqpu" nguu" vjcp"72.222<sup>0</sup>"" 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" PqvguaUrgekcn" Rwrtrug" Nqecn" I qxgtp o gpvu" d{ " UvcvgaEgpwu" [ gctu"3; 64" vq"4239<sup>0</sup>"



rqrwncvkqpu"qh"nguu"vjcp"72.222<sup>42</sup>"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 gpvu"lwtku fkevkqpu<sup>43</sup>"

320<sup>A</sup> Radio Frequency Equipment Manufacturers (RF Manufacturers)<sup>0</sup>"Pgvjgt"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+<sup>0</sup>"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"Dtqcfecuvkpi"cpf"Yktgnguu"Eq o o wpkecvkqpu"Gswkr o gpv" Ocpwhcevwtkp i <sup>0</sup>"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"dgnqy<sup>0</sup>"

330<sup>A</sup> Fixed Microwave Services."<sup>0</sup>Oketq y cxg"ugtxkegu"kpewfg"eq o o qp"ecttkgt.<sup>44</sup>"rtkxcvg/ qrgtcvkqpcn"hkzgf.<sup>45</sup>"cpf"dtqcfecuv"cwzknkct {"tc fkg"ugtxkegu<sup>46</sup>"Vjg {"cnuq"kpewfg"vjg"Wr rgt"Oketq y cxg" Hngzkdng"Wug"Ugtxkeg.<sup>47</sup>"Oknko gvgt"Ycxg"Ugtxkeg.<sup>48</sup>"Nqecn"Owvkrqkpv"FKuvtkdwvkqp"Ugtxkeg"\*NOFU+.<sup>49</sup>"vjg" Fki kvcn"Gngevtqpk"Oguuc i g"Ugtxkeg"\*FGOU+.<sup>4:</sup>"cpf"vjg"46" I J | "Ugtxkeg.<sup>4:</sup>"y jgtg"nkegpuggu"ecp"ejqqug" dgy y ggp"eq o o qp"ecttkgt"cpf"pqp/eq o o qp"ecttkgt"uvcvwu<sup>52</sup>"Vjgtg"ctg"cr rttqzk o cvgn {"88.8:2 eq o o qp" ecttkgt"hkzgf"nkegpuggu."8;.582"rtkxcvg"cpf"rwdnke"uchgv {"qrgtcvkqpcn/hkzgf"nkegpuggu."42.372"dtqcfecuv" 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"Ycxg"nkegpugu"kp"vjg" o ketq y cxg"ugtxkegu<sup>53</sup>"Vjg"Eq o o kuukqp"jcu" ppv {"gv"fgkpgf"cu o cmm"dwukpguu"ykvj"tgurgev"vq" o ketq y cxg"ugtxkegu<sup>0</sup>"Vjg"enquguv"cr rnkcedng"UDC" ecvg i qt {"ku"Yktgnguu"Vnggeq o o wpkecvkqpu"ecttkgt"\*gzegrv"Ucvgnkvg+<sup>54</sup>"cpf"vjg"cr rttqtkcvg"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 {"ggul<sup>55</sup>"Hqt" vjku"kpfwvut {"W0U0"Egpuwu"Dwtgcw"fcvc"hqt"4234"ujqy"vjcv"vjgtg"ygtg";89"hko u"vjcv"qrgtcvgf"hqt"vjg"

<sup>42</sup>"Y jkng"vjg"urgekcn"rwtrqug" i qxgtp o gpvu"ecvg i qt {"cnuq"kpewfg"nqecn"urgekcn"fkuvtkv" i qxgtp o gpvu."vjg"4239"Egpuwu" qh" Iqxgtp o gpvu"fcvc"fqgu"pqp"rtqxf"fcvc"ci i tgi cvgf"dcugf"qp"rqrwncvkqpu"uk | g"hqt"vjg"urgekcn"rwtrqug" i qxgtp o gpvu" ecvg i qt {"<sup>0</sup>"Vjgtg"htqg."qpn {"fcvc"htq o "kpfgrgpfpv"uejqqn"fkuvtkvu"ku"kpewfg"kp"vjg"urgekcn"rwtrqug" i qxgtp o gpvu" ecvg i qt {"<sup>0</sup>"

<sup>43</sup>Vjku"vqvcn"ku"fgtkxgf"htq o "vjg"uw o "qh"vjg"pw o dgt"qh" i gpgtcn"rwtrqug" i qxgtp o gpvu"eqwv {"."o wpkekrn"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"fkuvtkvu"ykvj"gpqnn o gpv"rqrwncvkqpu"qh"nguu"vjcp"72.222\*34.262+."htq o "vjg"4239"Egpuwu"qh" Iqxgtp o gpvu/"Qt i cpk | cvkqpu"Vcdngu"7."8."cpf"32<sup>0</sup>"

<sup>44</sup>"See 69"EHT"rctv"323."uwdrcvtu"E"cpf"K0"

<sup>45</sup>"See 69"EHT"rctv"323."uwdrcvtu"E"cpf"J0"

<sup>46</sup>"Cwzknkct {"Oketq y cxg"Ugtxkeg"ku" i qxgtpgf"d {"rctv"96"qh"vkng"69"qh"vjg"Eq o o kuukqp"twngu<sup>0</sup>"See"69"EHT"rctv"96<sup>0</sup>" Cxckncdng"vq"nkegpuggu"qh"dtqcfecuv"uvcvkqpu"cpf"vq"dtqcfecuv"cpf"ecdng"pgv y qtm"gpvkkgu."dtqcfecuv"cwzknkct {" o ketq y cxg"uvcvkqpu"ctg"wugf"htq"tgnc {"kpi"dtqcfecuv"vngxkukqp"uk i pcnu"htq o "vjg"uwvfkq"vq"vjg"vtcpu o kvgt."qt"dgy y ggp" v y q"rqkpvu"uwej"cu"o cklp"uwvfkq"cpf"cp"cwzknkct {"uwvfkq<sup>0</sup>"Vjg"ugtxkeg"cnuq"kpewfg"u o qdkg"VX"rkemwru."y jkej"tgnc {" uk i pcnu"htq o "c"tg o qvg"nqecvkqp"dcem"vq"vjg"uwvfkq<sup>0</sup>"

<sup>47</sup>"See 69"EHT"rctv"52."

<sup>48</sup>"See"69"EHT"rctv"323."uwdrcvtu"S<sup>0</sup>"

<sup>49</sup>"See"69"EHT"rctv"323."uwdrcvtu"N<sup>0</sup>"

<sup>4:</sup>"See"69"EHT"rctv"323."uwdrcvtu" I <sup>0</sup>"

<sup>4:</sup>"Ugg"i<sup>0</sup>"

<sup>52</sup>"See"69"EHT"ÈÈ"3230755."32303239<sup>0</sup>"

<sup>53</sup>"Vjgug"uvcvkuvku"ctg"dcugf"qp"c"tgxky"qh"vjg"Wpkxgtucn"Nkegpukpi"U {"uvg o "qp"Ugrvg o dgt"44."4237<sup>0</sup>"

<sup>54</sup>"See"W0U0"Egpuwu"Dwtgcw."2017 NAICS Definition, "517312 Wireless Telecommunications Carriers"\*except Satellite+.<sup>6</sup>"jwruklly y v<sup>0</sup>egpuwu<sup>0</sup>i qxleik/dkpluuwflpckeu<sup>0</sup>lpcutejAeqfg?739534 (ugcte j?4239'42PCKEU'42Ugcte j<sup>0</sup>"

<sup>55</sup>"See"35"EHT"È"3430423."PCKEU"Eqfg"739534\*rtgkxqwn {"739432+<sup>0</sup>"

gpvktg" {gct0<sup>56</sup>"" Qh"vjku"vqvcn." ; 77"hkt ou"jcf" g o r nq { o g p v " q h " ; ; ; " q t " h g y g t " g o r n q { g g u " c p f " 3 4 " j c f " g o r n q { o g p v " q h " 3 2 2 " g o r n q { g g u " q t " o q t g 0<sup>57</sup> " V j w u " w p f g t " v j k u " U D C " e c v i q t { " c p f " v j g " c u u q e k c v g f " u k | g " u v c p f c t f . " 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 " c " o c l q t k v { " q h " h k z g f " o k e t q y c x g " u g t x k e g " n k e g p u g g u " e c p " d g " e q p u k f g t g f " u o c n n 0 "

340A V j g " E q o o k u u k q p " f q u " p q v " j c x g " f c v c " u r g e k h { k p i " v j g " p w o d g t " q h " v j g u g " n k e g p u g g u " v j c v " j c x g " o q t g " v j c p " 3 . 7 2 2 " g o r n q { g g u . " c p f " v j w u " k u " w p c d n g " c v " v j k u " v k o g " v g " g u v k o c v g " y k v j " i t g c v g t " r t g e k u k q p " v j g " p w o d g t " q h " h k z g f " o k e t q y c x g " u g t x k e g " n k e g p u g g u " v j c v " y q w n f " s w c n k h { " c u " u o c n n " d w u k p g u u " e q p e g t p u " w p f g t " v j g " U D C 0 u " u o c n n " d w u k p g u u " u k | g " u v c p f c t f 0 " " E q p u g s w g p v n { . " 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 t g " c t g " w r " v q " 5 8 . 9 2 : " e q o o q p " e c t t k g t " h k z g f " n k e g p u g g u " c p f " w r " v q " 7 ; . 4 ; 3 " r t x c v g " q r g t c v k q p c u / h k z g f " n k e g p u g g u " c p f " d t q c f e c u v " c w z k n k c t { " t c f k q " n k e g p u g g u " k p " v j g " o k e t q y c x g " u g t x k e g u " v j c v " o c { " d g " u o c n n " c p f " o c { " d g " c h h g e v g f " d { " v j g " t w n g u " c p f " r q n e k g u " f k u e w u u g f " j g t g k p 0 " " Y g " p q v g . " j q y g x g t . " v j c v " v j g " o k e t q y c x g " h k z g f " n k e g p u g g " e c v i q t { " k p e n w f g u " u q o g " n c t i g " g p v k v k u 0 "

350A Other Communications Equipment Manufacturing 0 " V j k u " k p f w u v t { " e q o r t k u g u " 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 " o c p w h c e v w t k p i " e q o o w p k e c v k q p u " g s w k r o g p v " \* g z e g r v " v g n g r j q p g " c r r c t c v w u . " c p f " t c f k q " c p f " v g n g x k u k q p " d t q c f e c u v . " c p f " y k t g n g u u " e q o o w p k e c v k q p u " g s w k r o g p v + 0<sup>58</sup> " " G z c o r n g u " q h " u w e j " o c p w h c e v w t k p i " k p e n w f g " h k t g " f g v g e v k q p " c p f " c n c t o " u { u v g o u " o c p w h c e v w t k p i . " K p v g t e q o " u { u v g o u " c p f " g s w k r o g p v " o c p w h c e v w t k p i . " c p f " u k i p c n u " \* g 0 i 0 . " j k i j y c f . " r g f g u v t k p . " t c k n y c f . " v t c h h k e + " o c p w h c e v w t k p i 0<sup>59</sup> " V j g " U D C " j c u " g u v c d n k u j g f " c " u k | g " u v c p f c t f " h q t " v j k u " k p f w u v t { " c u " c m " u w e j " h k t o u " j c x k p i " 9 7 2 " q t " h g y g t " g o r n q { g g u 0<sup>5</sup> : " 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 " 5 : 5 " g u v c d n k u j o g p v u " q r g t c v g f " k p " v j c v " { g c t 0<sup>5</sup> ; " Q h " v j c v " p w o d g t . " 5 9 ; " q r g t c v g f " y k v j " h g y g t " v j c p " 7 2 2 " g o r n q { g g u " c p f " 6 " j c f " 7 2 2 " v q " ; ; ; " g o r n q { g g u 0<sup>62</sup> " " D c u g f " q p " v j k u " f c v c . " y g " e q p e n w f g " v j c v " v j g " o c l q t k v { " q h " Q v j g t " E q o o w p k e c v k q p u " G s w k r o g p v " O c p w h c e v w t g t u " c t g " u o c n n 0 "

360A Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing 0 " V j k u " k p f w u v t { " e q o r t k u g u " 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 " o c p w h c e v w t k p i " t c f k q " c p f " v g n g x k u k q p " d t q c f e c u v " c p f " y k t g n g u u " e q o o w p k e c v k q p u " g s w k r o g p v 0<sup>63</sup> " " G z c o r n g u " q h " r t q f w e v u " o c f g " d { " v j g u g " g u v c d n k u j o g p v u " c t g < v t c p u o k v k p i " c p f " t e g e k x k p i " c p v g p p c u . " e c d n g " v g n g x k u k q p " g s w k r o g p v . " I R U " g s w k r o g p v . " r c i g t u . " e g n n w n c t " r j q p g u . " o q d k n g " e q o o w p k e c v k q p u " g s w k r o g p v . " c p f " t c f k q " c p f " v g n g x k u k q p " u v w f k q " c p f " d t q c f e c u v k p i " g s w k r o g p v 0<sup>64</sup> " " V j g " U D C " j c u " g u v c d n k u j g f " c " u k | g " u v c p f c t f " h q t " v j k u " k p f w u v t { " q h " 3 . 4 7 2 " g o r n q { g g u "

<sup>56</sup>"See" W0U0" Egpwuw" 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." [www.fcc.gov/efiling/efile/efile.asp?file=739432&filetype=1](http://www.fcc.gov/efiling/efile/efile.asp?file=739432&filetype=1) ( p?739432 ( vkf?GEPUK\G42340GE3473UUU\7 ( jkfgRtgxky?hcnug ( xkpcig?42340"

<sup>57</sup>"Id" V j g " c x 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 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 "

<sup>58</sup>"See" W0U0" Egpwuw" Dwtgcv. "2017 NAICS Definitions, "334290 Other Communications Equipment Manufacturing,ö" [www.fcc.gov/efiling/efile/efile.asp?file=334290&filetype=1](http://www.fcc.gov/efiling/efile/efile.asp?file=334290&filetype=1) ( ugcte j ?4239 - PCKEU - Ugcte j ( ugcte j ?42390"

<sup>59</sup>"Id."

<sup>5</sup>:"See"35"EHT"3430423." PCKEU"Eqfg"5564;20"

<sup>5</sup>:"See W0U0" Egpwuw" Dwtgcv. "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." [www.fcc.gov/efiling/efile/efile.asp?file=5564&filetype=1](http://www.fcc.gov/efiling/efile/efile.asp?file=5564&filetype=1) ( p?5564;2 ( vkf?GEPUK\G42340GE3453U I 4 ( jkfgRtgxky?hcnug ( xkpcig?42340"

<sup>62</sup>"Id. V j g " c x 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 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 "

<sup>63</sup>"See W0U0" Egpwuw" Dwtgcv. "2017 NAICS Definition."ö334220 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing.ö [www.fcc.gov/efiling/efile/efile.asp?file=334220&filetype=1](http://www.fcc.gov/efiling/efile/efile.asp?file=334220&filetype=1) ( ugcte j ?4239."

<sup>64</sup>"Id."



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 "

390A 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 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 W0U0" Egpwu" Dwtgcw. 2017 NAICS Definition, "517919 All Other Telecommunications." [jwru0llyy0egpuwu0iqxleik/dkpluuflpckeu/pckeu0739;3; \(ugctej?4239-PCKEU-Ugctej \(ugctej?42390](http://www.fcc.gov/egpuwu0iqxleik/dkpluuflpckeu/pckeu0739;3; (ugctej?4239-PCKEU-Ugctej (ugctej?42390)

77" See 35"EHT"È"3430423." PCKEU"Eqfg"739;3;0"

78" See W0U0" Egpwu" Dwtgcw. 2012 Economic Census of the United States. "Vcdng"KF<"GE3473UUU\6." Information: Subject Series - Estab and Firm Size: Receipts Size of Firms for the U.S.: 2012." PCKEU"Eqfg"739;3;." [jwru0llyy0egpuwu0iqxlegfueklvcdngAvgzv?GE3473UUU\6 \(p?739;3; \(vkf?GEPUK\G42340GE3473UUU\6 \( jkfgRtgxkg y ?hcnug0](http://www.fcc.gov/egpuwu0iqxlegfueklvcdngAvgzv?GE3473UUU\6 (p?739;3; (vkf?GEPUK\G42340GE3473UUU\6 ( jkfgRtgxkg y ?hcnug0)

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 W0U0" Egpwu" Dwtgcw. 2017 NAICS Definition, "517311 Wired Telecommunications Carriers, "" [jwru0llyy0egpuwu0iqxleik/dkpluuflpckeu/pckeu0739533 \(ugctej?42390](http://www.fcc.gov/egpuwu0iqxleik/dkpluuflpckeu/pckeu0739533 (ugctej?42390)

7: " Id. "

82" See 35"EHT"È"3430423." PCKEU"Eqfg"739533"\*rtgkxqwun{"739332+0"

83" See W0U0" Egpwu" 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. 2012." PCKEU"Eqfg"739332." [jwru0llyy0egpuwu0iqxlegfueklvcdngAvgzv?GE3473UUU\7 \(p?739332 \( vkf?GEPUK\G42340GE3473UUU\7 \( jkfgRtgxkg y ?hcnug0](http://www.fcc.gov/egpuwu0iqxlegfueklvcdngAvgzv?GE3473UUU\7 (p?739332 ( vkf?GEPUK\G42340GE3473UUU\7 ( jkfgRtgxkg y ?hcnug0)

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"xfqg"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"vqvcn"cppwcn"tgxgpwgu"qh"cnm"kvu"chhknkcvgu."
fq"pqv"gzeggf"&472" o knnkqp"kp"vjg"ci i tgi cvg087""Dcugf"qp"cxckncdng"fcvc. "y g"hpkf"vjcv"cnm"dwv"hxg"ecdng"
qrgtcvqtu"ctg"u o cmm"gpvkvkgu"wpfgt"vjku"uk|g"uvcpfctf088""Y g"pqvg"vjcv"vjg"Eq o o kuukqp"pgkvjgt"tgs wgvu"pqt"
eqnngevu"kphqt 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"guvk 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"fgkpkvkqp"kp"
vjg"Eq o o wpkckvqpu"Cev0"

420A Intelligent Transportation System (ITS). "Vjg"Eq o o kuukqpou"qyp"fcvc o cxckncdng"kp"kvu"
Wpkxgtucn"Nkegpupki"U{uvg o o kpfkcvg"vjcv. "cu"qh"Qevdgt"48.4242. "vjgtg"ctg"346"cevkxg"KVU"nkegpugu"kp"
vjg"Eq o o kuukqpou"fcvcdug"vjcv"y knn"dg"chhgevgf"d{"qwt"cevkqpu08:""Cp"cwvjqt|cvkqp"vq"qrgtcvq"kp"vjg"KVU"
ugtxkge" o c{"dg"qdvckpgf"d{"cp{"vgttkvt{. "rquugukqp. "uvcvg. "ekv{"eqwv{"vqyp. "qt"uk o knct"i qxgtp o gpvcn"
gpvkv{"cpf"cp{"rwdnke"uchgv{"qt"kpfwvutkcnldwukpguu"gpvkv{"ogvki"vjg"rgtkpgpv"gnk i kdknk{"tgs wktg o gpvu0"
Rtkqt"vq"qrgtcvqkq. "cr rnkcpvu"ctg"kuuwgf"c"pqp/gzenwukxg. "igq i tcr jke"ctgc"nkegpug<"i qxgtp o gpvcn"gpvkvkgu"
ctg"cwvjqt|g f"dcugf"qp"vjcv"gpvkv{ou"ng i cn"lwtku fkevqpcn"ctgc"qh"qrgtcvqpu="cpf"pqp/i qxgtp o gpvcn"gpvkvkgu"
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"eqnngev"vjcv"kphqt 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 rnkcpge"
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"Urgekheccn{"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"tgncvgf"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 " 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 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 " c n u q " u g g m u " e q o o g p v "

85"69"W0U0E0"È"765\* o +\*4+=""see"also"69"EHT"È"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> . " " V j g " h x g " e c d n g " q r g t c v q t u " c m n " j c f " o q t g " v j c p " 6 : 8 . 6 8 2 " d c u k e " e c d n g " u w d u e t k d g t u l "
87"69"EHT"È"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> . " " V j g " h x g " e c d n g " q r g t c v q t u " c m n " j c f " o q t g " v j c p " 6 : 8 . 6 8 2 " d c u k e " e c d n g " u w d u e t k d g t u l "
89"Vjg"Eq o o kuukqp"fqgu"tgegxg"uwej" kphqt o cvkqp"qp" c"ecug/d{/ecug"dcuku"kh" c"ecdng"qrgtcvqt"cr rrgcnu" c"nqecn"
htcpejkug"cwvjqt|g{ou" hkpfpki"vjcv"vjg"qrgtcvqt"fqgu"pqv"swcnkh{"cu" c"u o cmm"ecdng"qrgtcvqt"rtwtuvcv"vq"È"980; 23\*g+0"qh"
vjg"Eq o o kuukqpou"twngu0""See"69"EHT"È"980; 32\*d+0"
8:"See Hgfgtcn"Eq o o wpkckvqpu"Eq o o kuukqp. "Universal Licensing System." jwv<lyktngnu0lhee0iqxlwuu0"Hqt"vjg"
rwrtrugu"qh"vjku"KTHC+. "eqpukvqpv"y kvj"Eq o o kuukqp"rcevkq"ht"yktngnu"ugtxkegu. "vjg"Eq o o kuukqp"guvk o cvgu"vjg"
pw o dgt"qh"nkegpuggu"dcugf"qp"vjg"pw o dgt"qh"wpkswg"HEE" Tg i kuvtkvqkq" Pw o dgtu0"



qp" y jgvjgt"vjg"Eq o o kuukqp"ujqwnf"eqpukfgt"cmqecvki"cf fvkqpcn"urgetwo "hqt"KVU"cr rnkcevkqpu"kp"vjg" hwwwtg0"

450A Vjku"vtcpukvqp"yknn"tgswtg"vjg"Eq o o kuukqp."nkegpuggu."cpf" o cpwhcewttgu"vq"vcmg"egtvcip" cevkqpu."uwej"cu"fgukipki"cpf"qrgtcvki"wpnkegpugf"fgxkegu"cpf"E/X4Z"gswkr o gpv"rgt"vjg"Eq o o kuukqpou" tgxkugf"twngu0"

**E. Steps Taken to Minimize the Significant Economic Impact on Small Entities, and Significant Alternatives Considered**

460A Vjg"THC"tgswtg"cp"ci gpe{"vq"fguetkdg"cp{"uki pkhkecpv"cnvgtpcvkxgu"vjcv"kv"jcu"eqpukfgtgf" kp"tgcejki"kvu"rtqrqugf"cr rtqcej."y jkej"oc{"kpenwfg"vjg"hqnnqy kpi"hw"cnvgtpcvkxgu"\*c o qpi"qvjgtu+<"\*3+" vjg"guvcdnku"ogpv"qh"fkhhgtkpi"eq o rnkcepg"qt"tgrqtvki"tgswtg o gpvu"qt"vk"ogvcdngu"vjcv"vcmg"kpqv"ceeqwv" vjg"tguwtegu"cxckndig"vq"u o cnn"gpvkvkgu="\*4+"vjg"enctkhkecvkqp."eqpuqnfvcvkqp."qt"uk o rnkkecvkqp"qh" eq o rnkcepg"qt"tgrqtvki"tgswtg o gpvu"wpfgt"vjg"twng"ht"u o cnn"gpvkvkgu="\*5+"vjg"wug"qh"rgthqt o cpeg."tcv jgt" vjcp"fgukip."uvcpfctfu="cpf"\*6+"cp"gzg o rvkqp"htq o "eqxgtci g"qh"vjg"twng."qt"cp{"rctv"vjgtgqh."hqt"u o cnn" gpvkvkgu0":

470A Vjg"rtqrqucnu"vjcv"yqwnf"tgswtg"gswkr o gpv" o qfkhkecvkqp"qt"pgy"gswkr o gpv" o cpwhcewtkpi"yqwnf"jcxg"cp"ko rcev"qp"gswkr o gpv" o cpwhcewttgu."uq o g"qh"y jkej"oc{"dg"u o cnn"gpvkvkgu0" Vjqw i j"y g"dgngxg"vjcv"qwt"rtqrqugf"vgejpkecn"twngu"ht"W/PKK"fgxkegu"cpf"KVU"gswkr o gpv"yqwnf"rtqxkfg" cr rtqrkcvg"twngu"ht"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."ykvj"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"gpwvtg"vjcv"vjg"rwdnke" tgegxgu"vjg"dgpghkvu"qh"kpqxcvkgu"ugtxkegu"cpf"vgejpqng i kgu"kp"c"rtq o rv"cpf"ghhkegpp" o cpgt"cpf"cr rn {" gswcnn{"vq"ncti g"cp"u o cnn"gpvkvkgu."vjwu"y kvjqwv"fkhhgtgpvkcni"ko rcev0""Y g"uggm"eq o o gpv"qp"cp {" cnvgtpcvkxgu."cpf"y jgvjgt"vjg"rtqu"cp"eqpu"qh"ngcxkpi"vjgug"ejqkegu"vq"vjg"kpfwvt{"y knn"cuukuv"kp"tgcejki" vjg"dguv"qweq o gu0"Y g"y knn"eqvkwpg"vq"gzc o kpg"cnvgtpcvkxgu"kp"vjg"hwvwtg"ykvj"vjg"qdlgevkgu"qh" gnk o kpcvki"wpgeguuct{"tgi wncvqpu"cpf" o kpk o k | kpi"cp {"uki pkhkecpv"ko rcev"qp"u o cnn"gpvkvkgu0"

**F. Federal Rules that May Duplicate, Overlap, or Conflict with the Proposed Rules**

Pqpg0

8: "See 7"WOUE0"E"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"Cngzcpftg"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"Qhkekcnu"\*CCUJVQ+ "  
 Cogtkecp"Jki jyc{"Wugtu"Cmkcpeg"  
 Cogtkecp"Jqpf"Oqvqt"Eq0."kpel"  
 Cogtkecp"Rwdnke"Vtcurqtvcvkqp"Cuuqekcvkqp"  
 Cogtkecp"Rwdnke"Yqtmu"Cuuqekcvkqp"\*CRYC+ "  
 Cogtkecp"Uqekv{"qh"Ekxkn"Gpikpggtu"\*CUEG+ "  
 Cogtkecp"Vtchhke"Uchgv{"Ugtxkegu"Cuuqekcvkqp"  
 Cogtkecp"Vtwemkpi"Cuuqekcvkqp"  
 Con"lcfjk"  
 Co{"OceMkppqp"  
 Cpftgy"Mcfkpi"  
 Cpftgy"Nwfnwo"  
 Cpp"fqug{"

C r r n k g f " k p h q t o c v k q p " k p e 0 "  
 C r 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 e 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."Rtgukfgpv" ( "EGQ"Co gkcep"Vtwemkpi"Cuuekcvkqpu"  
 Ejtkuvrjgt"Rctkug"  
 Ejtkuvrjgt"Rgvgtu"  
 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"ht"Htggfq o ."VgejHtggfq o ."  
 Co gkcep"Eq o okv o gpv."Kpukvwvg"ht"Rqke {"Kppqxcvkqp."Nguu" Iqxgtp o gpv."Octmgv"Kpukvwvg."  
 Htggfq o Yqtmu."Vczrc {gtu"Rtqvgevkqp" Cnnkpeg."Egpvgt"ht"Kpfxkfwcn"Htggfq o ."Kppqxcvkqp" Fghgpug."  
 Pcvkqpcn"Vczrc {gtu" Wpkqp."Nkpeqnp" Pgy qtm."Co gkcep"Eqpugtxcvkxg" Wpkqp."Co gkcep"Ng ikuncvkxg"  
 Gzejcpi"Eqwpekn."CNGE" Cevkqp."Eqpuw o gt" Cevkqp"ht" c"Uvtqpi"Geqqo {"Co gkcepu"ht"Vcz" Tghqto ."  
 Fkikvcn" Nkdgtv {"Vgejppnqi {" ( " Fgo qetce {"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"  
 Eqo ecuv"Eqtrqtvcvkqp"  
 Eqo o gtekn" Xgjkeng"Uchgv {"Cnnkpeg"  
 Eqo o gtekn" Xgjkeng" Vtckkpi" Cuuekcvkqp"  
 Eqo o ukipkc."Kpe0"  
 Eqo rgvkvxg" Gpvgt rtkug" Kpukvwvg"

Eqppgevkewv"Frctv o gpv"qh"Vtcurqtvcvkqp"  
 Eqpuw o gt"Cevkqp"hqt"Uvtqpi"Geqqo {."Kpe0"  
 Eqpuw o gt"Trqtvu"  
 Eqpvkpgpvcn"C I "  
 Eqpvkpgpvcn"Cwvq o qvkg"U{uvgo u"  
 Eqvte"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"Jkpmng{"  
 Fcxkf"L0"Mtgk|kpi gt"  
 Fcxkf"Mce|qtqyumk"  
 Fcxkf"Oqkpcqtq"  
 Fcxkf"Yguv"  
 Fcxkf"Yknkco u"  
 Fgpkul"Eqwwtg"  
 Fgppku"C0" [ctf"  
 Fgppku"Dcmgt"  
 FGPUQ"Eqtrqtvcvkqp"  
 Fgpuq"Kpvgtpcvkqpcn"Cogtkec."Kpe0"  
 FLK"Vgejqnqi {."Kpe0"  
 Fqpcnf"Dcemvtq o "  
 Fqpcnf"Jkn"  
 Ft0"Tkjctf"Tq{"  
 FtkxgQjkq"  
 FUTE"Cwvq"Uchgv{"Eqcnkvkqp"  
 Fyki jv"C0"Jgpfgtuqp"  
 F{pcke"Urgewto"Cmkepeg"

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 v 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 q 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 "  
 W p k q p . " K p p q x c v k q p " F g h g p u g " H q w p f c v k q p . " E q p u w o g t " C e v k q p " h q t " c " U v t q p i " G e q p q o { . " N k p e q n p " P g v y q t m . "  
 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 "  
 K p u v k v w v g . " P c v k q p c n " V c z r c { g t u " W p k q p . " F k u e q x g t { " K p u v k v w v g . " N g u u " I q x g t p o g p v "  
 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 . " F c p " I c t t g v u q p "  
 K p u v k v w v g " q h " V t c p u r q t v c v k q p " G p i k p g g t u "  
 K p v g n " E q t r 0 "  
 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 { " q h " C o g t k e c "  
 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 { " q h " C o g t k e c . " 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 k c n 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 { " q h " O k e j k i c p "  
 K p v g t p c v k q p c n " C u u q e k c v k q p " q h " H k t g " E j k g h u "  
 K p v g t p c v k q p c n " C u u q e k c v k q p " q h " H k t g " H k i j v g t u "  
 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 " ( " G e q p q o k e u "  
 K p v g t p c v k q p c n " O w p k e k r c n " U k i p c n " C u u q e k c v k q p "  
 K U Q I V E " 4 2 6 " K p v g n k i g p v " V t c p u r q t v " U { u v g o u "  
 L 0 " C n n k u q p " J q n n k g t "  
 L 0 " U 0 " R c k i g "  
 L c i w c t " N c p f " T q x g t " N k o k v g f "  
 L c o g u " D c u u . " V g z c u " 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 "  
 L c o g u " E " O g t k v v / " M M 6 K W J "  
 L c o g u " F c j n "  
 L c o g u " G t k e m u q p . " O c p u h k g n f " L q j p u q p " T c f k q " U g t x k e g "  
 L c o g u " I c v y q q f "  
 L c o g u " L 0 " U v c i p q p g "  
 L c o g u " N c p k p i "  
 L c o g u " P g n u q p "  
 L c o g u " T 0 " Y c n n u "  
 L c o g u " U 0 " R c k i g "



Lc o gu"Uvtcu o c"/"P ; \MR"  
Lcuqp"Dccem"  
Lcuqp"Ngxkpg"/"Egpygt"hqt"Cwvq"Uchgv{"  
Lghh"Dgem"  
Lghh"Qtt"  
Lghh"Rcn o gt"  
Lghh"Rj knkru"  
Lghhtg{ "F0" J gpftkemu"  
Lghhtg{ "Nkdd{ "  
Lgtg o kc j"Dc i wnc"  
Lgtg o { "Lcemuqp"/"MG9O Y I "  
Lguug"Mcpfc"  
Lqcppc"Rkpmgtvqp."Rcvtkem" J cttku"  
Lqg"M0" I knku"  
Lqg"Mcpg." Y knn"Tkpg j ctv"  
Lqgn"Lwpfv."UF FQV"  
Lqgn"Mgnng{ "  
Lqjp"G0"Fcxku"  
Lqjp"J kemg{ "  
Lqjp"Rgppg{ "/"CC8LP"  
Lqjp"Umkgt"  
Lqp"O0"Rgjc"  
Lqpcv j cp"H0"Dnkpeqg"  
Lqpcv j cp"Tkgn."Rj F."RG"  
Lqtfcp"Oknu"  
Lqug"Ognpftgu"  
Lqugr j "D0"Cnngg"/"MF8OLT"  
Lqugr j "Fcxf"Eqqm"  
Lqugr j "Y 0"Rctvny"  
Lqugr j "Y knkco" J wvejkpuqp"  
Lwf{ "Eqz"  
Lwnkg"Gxcpu"  
Lwnkg"OeI tgy"  
Lwpkrgt"Pgyy qtmu"  
MC9 J CM."Ejcf"U o kvj"

Mctn"OcePckt."RG"  
 Mcvjgtpkg" [ gjn."Xqnxq"Ectu"  
 Mcvjnggp"Htgkvc i."C0L0"Q)Eqppqt"  
 Mgvkj"U0" I qtfqp"  
 Mgppgvj" J wvejkpuqp"/"M8MY J"  
 Mgppgvj"Xcwijp"  
 Mgpv"Qnuqp"  
 Mgpvwem{"Vtcurqtvcvkqp"Ecdkpgv"  
 Mgxkp"Dqwticwnv"  
 Mgxkp"Oqvwwu"  
 Mgxkp"Qno"  
 Mgxkp"QPgknn"  
 Mkipiung{"Uycpuqp"  
 Mtkujpc"E"Rcvpc o"  
 Mtkuvkp"T0"Y jkyg"  
 Mtkuvqrjgt"L0"Wno gt"  
 M{ng"Jgpfgtuqp"  
 N0"Uvgrjgp"Dgmn"  
 Nctt{"Mcrr"  
 Nctt{"Vtwnkpi gt"  
 Ngciwg"qh"C ogtkecp"Dke{enkuvu."Gcuv"Eqcuv" I tggpyc{."Dke{eng"Cfxqece{"qh"Egprtcn"Ctmcpcucu."Ecnkhtpke"  
 Cuuqekcvkqp"qh"Dke{enkpi"Qticpk|cvkqpu."Ucp" Fkgiq"Eqwrv{"Dke{eng"Eqcnkvkqp."Dkmg Y cnmUqncpc."Hnqtkfc"  
 Dke{eng"Cuuqekcvkqp." I ggtikc"Dkmg."Vtgcuwgt"Xcng{"Uchg" Tqvwgu"vq"Uejqqn"Rtqitc o."Tkfg"Knnkpqku."  
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 Eqppgevkpi"Eq o o wpvkku." Y {q o kpi"Rcvjyc{u"  
 Ngpqtct"Cnngg"/"MG8KT J"  
 NI"Gngevtqpkeu."Kpe0"  
 Nqtgp"Mgnqi i"/"MG9TZF"  
 Nv0" I qxgtpqt" I gqhh" Fwpecp"  
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 Okejcgj"V0"Uejngpmgt"  
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 Okvejgmn"Oqwugt"  
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 Rjkn"Uvgicnn"  
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 Tqdgvt"Ecug{"  
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 Tqdgvt"Nqzglq{"  
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Xkpegv"Ucdk"  
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Yk/Hk"Cnnkpeg"  
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Yknnko" I gt {"  
Yknnko"O"XcpMktm"  
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YUR"WUC"  
Y { q o kpi" Fgrctv o gpv"qh"Vtcurqtvcvkqp

STATEMENT OF
CHAIRMAN AJIT PAI

Tg<" Use of the 5.850-5.925 GHz Band."GV"Fqemv"Pq0"3;/35:0"

Vjg"ucic"qh"vjg"70;" I J|"dcpf"dtkpiu"vq"vjg"okpf"qh"vjku"Ejckto cp"qh"vjg"Dqctf"vjg"3;92"uqpi"d{
Ejckto gp"qh"vjg"Dqctf."Give Me Just a Little More Time"Kp"vjcv"jkv."Ejckto gp"qh"vjg"Dqctf"hc o qwun{
rngcfgf"vjcv."kh"ikxgp"lwuv"cnkvnng"dkv"nqpi gt."itgc"vjkp iu"yqwnf"uwtgn{"jcr rgp"\*kp"vjg"ecug"qh"vjg"uqpi."

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FUTE/dcugf"ugtxkeg"jcu"gxqnxgf"unqyn{"cpf"jcu"pqv"dggp"uwgf"kp"co"ogcpki hwn"yc{"vq"ko rtxqg"
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fqpv"jcxg" FUTE"qp/dqctf"wpkvu0"

Hqt{"gctu."y jggxgt"kv"jcu"dggp"rqpvgf"qww"vjcv"o quv"70;" I J|"dcpf"urgetw o"kp"vjg" Wpkvgf"Uvcvgu"
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ycu"lwuv"ctqwpf"vjg"dgp0"" Yg"lwuv"pggf"vq"ikxg"kv"cnkvnng"oqtg"vkog0"" Ygnn."yg"jcxg"ikxgp" FUTE"cnkvnng"
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Commissioner Ajit Pai, Hearing before the Subcommittee on Communications and Technology of the
U.S. House of Representatives Committee on Energy and Commerce (Dec. 12, 2012),
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k o o g f k c v g n {" r w v " k v " v q " w u g . " g u v c d n k u j k p i " q t " g p j c p e k p i " e q p p g e v k x k v {" v q " t w t c n " c p f " w p f g t u g t x g f " c t g c u 0 5 "
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i g p g t c v k q p " q h " Y k / H k " u g t x k e g . " Y k / H k " 8 . " k u " g z r g e v g f " v q " c m q y " h q t " o c z k o w o " u r g g f u " v j c v " c t g " v y q / c p f / c / j c n h "
v k o g u " h c u v g t " v j c p " k v u " r t g f g e g u u q t " v g e j p p n q i { " y j k n g " r t q x k f k p i " u w r g t k q t " r g t h q t o c p e g " k p " e t q y f g f "
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f q o g u v k e c m n { " c p f " k p v g t p c v k p c m n { . " y k v j " c w v q o c m g t u " u e w j " c u " H q t f . " C w f k . " F c k o n g t . " D O Y . " c p f " L c i w e t " N e p f "
T q x g t " r w t u w k p i " f g r n q { o g p v " q h " E / X 4 Z " g s w k r o g p w 0 "

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w p n k e g p u g f " w u g " q h " v j g " 7 0 : 7 2 / 7 0 : ; 7 " I J | " d c p f " y j k n g " u g g m k p i " e q o o g p v " q p " t w n g u " 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 " c u " r c t v " q h " q w t " 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 " " Y g " y k n n " t g s w k t g " v j g " n k o k v g f " F U T E "
q r g t c v k q p u " e w t t g p v n { " f g r n q { g f " q x g t " v j g " h w n n " 7 0 ; " I J | " d c p f " v q " v t c p u k v k p i " v q " v j g " w r r g t " 5 2 / o g i c j g t v | " 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 0 " " Y g " c n u q " c f q r v " E / X 4 Z " c u " v j g " p g y " v g e j p p n q i k e c n " u v c p f c t f " h q t " K V U " q r g t c v k q p u "
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v t c p u k v k p i " h t q o " F U T E " v q " E / X 4 Z / d c u g f " q r g t c v k q p u 0 "

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y g k i j v < " " Y j g p " r c k t g f " y k v j " q v j g t " c f l c e g p " w p n k e g p u g f " u r g e t w o . " y g " y k n n " o c m g " c x c k n c d n g . " k p " v j g " p g c t " v g t o "
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v j g " t g e q t f . " K " c o " e q p h k f g p v " v j c v " 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 k n n " r t q x k f g " v j g " u r g e t w o "
p g g f g f " h q t " u c h g v { / t g n c v g f " u g t x k e g u 0 " " K p f g g f . " t k i j v " p q y " q p n { " 4 2 " o g i c j g t v | " q h " v j g " d c p f " c t g " c e v w c m n { "
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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 w 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 p q . " 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 w 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 "

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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 p 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 "

I k x g p " v j g " d c n p e g f " c r r t q e j " y g " c t g " v c m k p i " v q f c { . " K " c o " r n g c u g f " y k v j " v j g " u w r r q t v " y g " j c x g "

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Vwtpkpi"dcem"vq"vjg"uqpi."Give Me Just A Little More Time."vjg"Ejckt o gp"qh"vjg"Dqctf"ucpi."  
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cpf"Vgejppnqi { { "Dcj o cp" Dc fkrqwt."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 {."  
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Y k m k p u g n=" h t q o " v j g" G p h 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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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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K"cr rrtqg0"



STATEMENT OF COMMISSIONER BRENDAN CARR

Tg<" Use of the 5.850-5.925 GHz Band."GV"Fqemv"Pq0"3;/35:0"

" Kh"vjgtgou"ppg"vjkipi"o{"HEE"eqmgc iwgu"cpf"K"cm"ci tgg"qp."kvou"vjg"ko rqtvcpeg"qh"okf/dcpf" urgevtw o0"Kp"qwt"urggejgu"cpf"vguvk o qp{"kp"qwt"uvcvg o gpvu"cpf"vyggvu."yg"jcxg"cm"o c f g"kv"engct"vjcv" htggkpi"wr"cf fkvkqpcn"o kf/dcpf"urgetw o "ku"etkvecn"vq"Co g tkecøu"ngc f g t u j k r"kp"yktgngu0"

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