

(3) establish a research plan, and direct research, that addresses the wireless communications needs of public safety entities beyond what can be provided by the current generation of broadband technology;

(4) accelerate the development of mission critical voice, including device-to-device “talkaround” capability over broadband networks, public safety prioritization, authentication capabilities, and standard application programming interfaces for the nationwide public safety broadband network, if necessary and practical;

(5) accelerate the development of communications technology and equipment that can facilitate the eventual migration of public safety narrowband communications to the nationwide public safety broadband network; and

(6) convene working groups of relevant government and commercial parties to achieve the requirements in paragraphs (1) through (5).

(Pub. L. 112–96, title VI, § 6303, Feb. 22, 2012, 126 Stat. 221.)

#### SUBCHAPTER IV—SPECTRUM AUCTION AUTHORITY

### § 1451. Deadlines for auction of certain spectrum

#### (a) Clearing certain Federal spectrum

##### (1) In general

The President shall—

(A) not later than 3 years after February 22, 2012, begin the process of withdrawing or modifying the assignment to a Federal Government station of the electromagnetic spectrum described in paragraph (2); and

(B) not later than 30 days after completing the withdrawal or modification, notify the Commission that the withdrawal or modification is complete.

##### (2) Spectrum described

The electromagnetic spectrum described in this paragraph is the 15 megahertz of spectrum between 1675 megahertz and 1710 megahertz identified under paragraph (3).

##### (3) Identification by Secretary of Commerce

Not later than 1 year after February 22, 2012, the Secretary of Commerce shall submit to the President a report identifying 15 megahertz of spectrum between 1675 megahertz and 1710 megahertz for reallocation from Federal use to non-Federal use.

#### (b) Reallocation and auction

##### (1) In general

Notwithstanding paragraph (15)(A) of section 309(j) of this title, not later than 3 years after February 22, 2012, the Commission shall, except as provided in paragraph (4)—

(A) allocate the spectrum described in paragraph (2) for commercial use; and

(B) through a system of competitive bidding under such section, grant new initial licenses for the use of such spectrum, subject to flexible-use service rules.

##### (2) Spectrum described

The spectrum described in this paragraph is the following:

(A) The frequencies between 1915 megahertz and 1920 megahertz.

(B) The frequencies between 1995 megahertz and 2000 megahertz.

(C) The frequencies described in subsection (a)(2).

(D) The frequencies between 2155 megahertz and 2180 megahertz.

(E) Fifteen megahertz of contiguous spectrum to be identified by the Commission.

#### (3) Proceeds to cover 110 percent of Federal relocation or sharing costs

Nothing in paragraph (1) shall be construed to relieve the Commission from the requirements of section 309(j)(16)(B) of this title.

#### (4) Determination by Commission

If the Commission determines that the band of frequencies described in paragraph (2)(A) or the band of frequencies described in paragraph (2)(B) cannot be used without causing harmful interference to commercial mobile service licensees in the frequencies between 1930 megahertz and 1995 megahertz, the Commission may not—

(A) allocate such band for commercial use under paragraph (1)(A); or

(B) grant licenses under paragraph (1)(B) for the use of such band.

#### (c) Omitted

(Pub. L. 112–96, title VI, § 6401, Feb. 22, 2012, 126 Stat. 222.)

#### CODIFICATION

Section is comprised of section 6401 of Pub. L. 112–96. Subsec. (c) of section 6401 of Pub. L. 112–96 amended section 309 of this title.

### § 1452. Special requirements for incentive auction of broadcast TV spectrum

#### (a) Reverse auction to identify incentive amount

##### (1) In general

The Commission shall conduct a reverse auction to determine the amount of compensation that each broadcast television licensee would accept in return for voluntarily relinquishing some or all of its broadcast television spectrum usage rights in order to make spectrum available for assignment through a system of competitive bidding under subparagraph (G) of section 309(j)(8) of this title.

##### (2) Eligible relinquishments

A relinquishment of usage rights for purposes of paragraph (1) shall include the following:

(A) Relinquishing all usage rights with respect to a particular television channel without receiving in return any usage rights with respect to another television channel.

(B) Relinquishing all usage rights with respect to an ultra high frequency television channel in return for receiving usage rights with respect to a very high frequency television channel.

(C) Relinquishing usage rights in order to share a television channel with another licensee.

##### (3) Confidentiality

The Commission shall take all reasonable steps necessary to protect the confidentiality

of Commission-held data of a licensee participating in the reverse auction under paragraph (1), including withholding the identity of such licensee until the reassignments and reallocations (if any) under subsection (b)(1)(B) become effective, as described in subsection (f)(2).

**(4) Protection of carriage rights of licensees sharing a channel**

A broadcast television station that voluntarily relinquishes spectrum usage rights under this subsection in order to share a television channel and that possessed carriage rights under section 338, 534, or 535 of this title on November 30, 2010, shall have, at its shared location, the carriage rights under such section that would apply to such station at such location if it were not sharing a channel.

**(b) Reorganization of broadcast TV spectrum**

**(1) In general**

For purposes of making available spectrum to carry out the forward auction under subsection (c)(1), the Commission—

(A) shall evaluate the broadcast television spectrum (including spectrum made available through the reverse auction under subsection (a)(1)); and

(B) may, subject to international coordination along the border with Mexico and Canada—

(i) make such reassignments of television channels as the Commission considers appropriate; and

(ii) reallocate such portions of such spectrum as the Commission determines are available for reallocation.

**(2) Factors for consideration**

In making any reassignments or reallocations under paragraph (1)(B), the Commission shall make all reasonable efforts to preserve, as of February 22, 2012, the coverage area and population served of each broadcast television licensee, as determined using the methodology described in OET Bulletin 69 of the Office of Engineering and Technology of the Commission.

**(3) No involuntary relocation from UHF to VHF**

In making any reassignments under paragraph (1)(B)(i), the Commission may not involuntarily reassign a broadcast television licensee—

(A) from an ultra high frequency television channel to a very high frequency television channel; or

(B) from a television channel between the frequencies from 174 megahertz to 216 megahertz to a television channel between the frequencies from 54 megahertz to 88 megahertz.

**(4) Payment of relocation costs**

**(A) In general**

Except as provided in subparagraph (B), from amounts made available under subsection (d)(2), the Commission shall reimburse costs reasonably incurred by—

(i) a broadcast television licensee that was reassigned under paragraph (1)(B)(i)

from one ultra high frequency television channel to a different ultra high frequency television channel, from one very high frequency television channel to a different very high frequency television channel, or, in accordance with subsection (g)(1)(B), from a very high frequency television channel to an ultra high frequency television channel, in order for the licensee to relocate its television service from one channel to the other;

(ii) a multichannel video programming distributor in order to continue to carry the signal of a broadcast television licensee that—

(I) is described in clause (i);

(II) voluntarily relinquishes spectrum usage rights under subsection (a) with respect to an ultra high frequency television channel in return for receiving usage rights with respect to a very high frequency television channel; or

(III) voluntarily relinquishes spectrum usage rights under subsection (a) to share a television channel with another licensee; or

(iii) a channel 37 incumbent user, in order to relocate to other suitable spectrum, provided that all such users can be relocated and that the total relocation costs of such users do not exceed \$300,000,000. For the purpose of this section, the spectrum made available through relocation of channel 37 incumbent users shall be deemed as spectrum reclaimed through a reverse auction under subsection (a).

**(B) Regulatory relief**

In lieu of reimbursement for relocation costs under subparagraph (A), a broadcast television licensee may accept, and the Commission may grant as it considers appropriate, a waiver of the service rules of the Commission to permit the licensee, subject to interference protections, to make flexible use of the spectrum assigned to the licensee to provide services other than broadcast television services. Such waiver shall only remain in effect while the licensee provides at least 1 broadcast television program stream on such spectrum at no charge to the public.

**(C) Limitation**

The Commission may not make reimbursements under subparagraph (A) for lost revenues.

**(D) Deadline**

The Commission shall make all reimbursements required by subparagraph (A) not later than the date that is 3 years after the completion of the forward auction under subsection (c)(1).

**(5) Low-power television usage rights**

Nothing in this subsection shall be construed to alter the spectrum usage rights of low-power television stations.

**(c) Forward auction****(1) Auction required**

The Commission shall conduct a forward auction in which—

(A) the Commission assigns licenses for the use of the spectrum that the Commission reallocates under subsection (b)(1)(B)(ii); and

(B) the amount of the proceeds that the Commission shares under clause (i) of section 309(j)(8)(G) of this title with each licensee whose bid the Commission accepts in the reverse auction under subsection (a)(1) is not less than the amount of such bid.

**(2) Minimum proceeds****(A) In general**

If the amount of the proceeds from the forward auction under paragraph (1) is not greater than the sum described in subparagraph (B), no licenses shall be assigned through such forward auction, no reassignments or reallocations under subsection (b)(1)(B) shall become effective, and the Commission may not revoke any spectrum usage rights by reason of a bid that the Commission accepts in the reverse auction under subsection (a)(1).

**(B) Sum described**

The sum described in this subparagraph is the sum of—

(i) the total amount of compensation that the Commission must pay successful bidders in the reverse auction under subsection (a)(1);

(ii) the costs of conducting such forward auction that the salaries and expenses account of the Commission is required to retain under section 309(j)(8)(B) of this title; and

(iii) the estimated costs for which the Commission is required to make reimbursements under subsection (b)(4)(A).

**(C) Administrative costs**

The amount of the proceeds from the forward auction under paragraph (1) that the salaries and expenses account of the Commission is required to retain under section 309(j)(8)(B) of this title shall be sufficient to cover the costs incurred by the Commission in conducting the reverse auction under subsection (a)(1), conducting the evaluation of the broadcast television spectrum under subparagraph (A) of subsection (b)(1), and making any reassignments or reallocations under subparagraph (B) of such subsection, in addition to the costs incurred by the Commission in conducting such forward auction.

**(3) Factor for consideration**

In conducting the forward auction under paragraph (1), the Commission shall consider assigning licenses that cover geographic areas of a variety of different sizes.

**(d) TV Broadcaster Relocation Fund****(1) Establishment**

There is established in the Treasury of the United States a fund to be known as the TV Broadcaster Relocation Fund.

**(2) Payment of relocation costs**

Any amounts borrowed under paragraph (3)(A) and any amounts in the TV Broadcaster Relocation Fund that are not necessary for reimbursement of the general fund of the Treasury for such borrowed amounts shall be available to the Commission to make the payments required by subsection (b)(4)(A).

**(3) Borrowing authority****(A) In general**

Beginning on the date when any reassignments or reallocations under subsection (b)(1)(B) become effective, as provided in subsection (f)(2), and ending when \$1,000,000,000 has been deposited in the TV Broadcaster Relocation Fund, the Commission may borrow from the Treasury of the United States an amount not to exceed \$1,000,000,000 to use toward the payments required by subsection (b)(4)(A).

**(B) Reimbursement**

The Commission shall reimburse the general fund of the Treasury, without interest, for any amounts borrowed under subparagraph (A) as funds are deposited into the TV Broadcaster Relocation Fund.

**(4) Transfer of unused funds**

If any amounts remain in the TV Broadcaster Relocation Fund after the date that is 3 years after the completion of the forward auction under subsection (c)(1), the Secretary of the Treasury shall—

(A) prior to the end of fiscal year 2022, transfer such amounts to the Public Safety Trust Fund established by section 1457(a)(1) of this title; and

(B) after the end of fiscal year 2022, transfer such amounts to the general fund of the Treasury, where such amounts shall be dedicated for the sole purpose of deficit reduction.

**(e) Numerical limitation on auctions and reorganization**

The Commission may not complete more than one reverse auction under subsection (a)(1) or more than one reorganization of the broadcast television spectrum under subsection (b).

**(f) Timing****(1) Contemporaneous auctions and reorganization permitted**

The Commission may conduct the reverse auction under subsection (a)(1), any reassignments or reallocations under subsection (b)(1)(B), and the forward auction under subsection (c)(1) on a contemporaneous basis.

**(2) Effectiveness of reassignments and reallocations**

Notwithstanding paragraph (1), no reassignments or reallocations under subsection (b)(1)(B) shall become effective until the completion of the reverse auction under subsection (a)(1) and the forward auction under subsection (c)(1), and, to the extent practicable, all such reassignments and reallocations shall become effective simultaneously.

**(3) Deadline**

The Commission may not conduct the reverse auction under subsection (a)(1) or the

forward auction under subsection (c)(1) after the end of fiscal year 2022.

**(4) Limit on discretion regarding auction timing**

Section 309(j)(15)(A) of this title shall not apply in the case of an auction conducted under this section.

**(g) Limitation on reorganization authority**

**(1) In general**

During the period described in paragraph (2), the Commission may not—

(A) involuntarily modify the spectrum usage rights of a broadcast television licensee or reassign such a licensee to another television channel except—

- (i) in accordance with this section; or
- (ii) in the case of a violation by such licensee of the terms of its license or a specific provision of a statute administered by the Commission, or a regulation of the Commission promulgated under any such provision; or

(B) reassign a broadcast television licensee from a very high frequency television channel to an ultra high frequency television channel, unless—

- (i) such a reassignment will not decrease the total amount of ultra high frequency spectrum made available for reallocation under this section; or
- (ii) a request from such licensee for the reassignment was pending at the Commission on May 31, 2011.

**(2) Period described**

The period described in this paragraph is the period beginning on February 22, 2012, and ending on the earliest of—

- (A) the first date when the reverse auction under subsection (a)(1), the reassignments and reallocations (if any) under subsection (b)(1)(B), and the forward auction under subsection (c)(1) have been completed;
- (B) the date of a determination by the Commission that the amount of the proceeds from the forward auction under subsection (c)(1) is not greater than the sum described in subsection (c)(2)(B); or
- (C) September 30, 2022.

**(h) Protest right inapplicable**

The right of a licensee to protest a proposed order of modification of its license under section 316 of this title shall not apply in the case of a modification made under this section.

**(i) Commission authority**

Nothing in subsection (b) shall be construed to—

- (1) expand or contract the authority of the Commission, except as otherwise expressly provided; or
- (2) prevent the implementation of the Commission's "White Spaces" Second Report and Order and Memorandum Opinion and Order (FCC 08-260, adopted November 4, 2008) in the spectrum that remains allocated for broadcast television use after the reorganization required by such subsection.

**(j) Reserve source for payment of relocation costs**

**(1) Funding**

There are hereby authorized to be appropriated, and appropriated, to the TV Broadcaster Relocation Fund established by subsection (d), out of any monies in the Treasury not otherwise appropriated—

- (A) for fiscal year 2018, \$600,000,000, to remain available, notwithstanding subsection (d)(4), until not later than July 3, 2023, pursuant to this subsection; and
- (B) for fiscal year 2019, \$400,000,000, to remain available, notwithstanding subsection (d)(4), until not later than July 3, 2023, pursuant to this subsection.

**(2) Availability of funds**

**(A) In general**

If the Commission makes the certification described in subparagraph (B), amounts made available to the TV Broadcaster Relocation Fund by paragraph (1) shall be available to the Commission to make—

- (i) reimbursements pursuant to subsection (b)(4)(A)(i) or (b)(4)(A)(ii), including not more than \$350,000,000 for this purpose from funds made available by paragraph (1)(A);
- (ii) payments required by subsection (k), including not more than \$150,000,000 for this purpose from funds made available by paragraph (1)(A);
- (iii) payments required by subsection (l), including not more than \$50,000,000 for this purpose from funds made available by paragraph (1)(A); and
- (iv) payments solely for the purposes of consumer education relating to the reorganization of broadcast television spectrum under subsection (b), including \$50,000,000 for this purpose from funds made available by paragraph (1)(A).

**(B) Certification**

The certification described in this subparagraph is a certification from the Commission to the Secretary of the Treasury that the funds available prior to March 23, 2018, in the TV Broadcaster Relocation Fund are likely to be insufficient to reimburse reasonably incurred costs described in subsection (b)(4)(A)(i) or (b)(4)(A)(ii).

**(C) Availability for payments after April 13, 2020**

**(i) For payments to broadcast television licensees and MVPDs**

Notwithstanding subsection (b)(4)(D), the Commission may make payments pursuant to subsection (b)(4)(A)(i) or (b)(4)(A)(ii) from amounts made available to the TV Broadcaster Relocation Fund by paragraph (1) after April 13, 2020, if, before making any such payments after such date, the Commission submits to Congress a certification that such payments are necessary to reimburse reasonably incurred costs described in such subsection.

**(ii) For payments to television translator stations and low power television stations**

Amounts made available to the TV Broadcaster Relocation Fund by paragraph (1) shall not be available to the Commission to make payments required by subsection (k) after April 13, 2020, unless, before making any such payments after such date, the Commission submits to Congress a certification that such payments are necessary to reimburse costs reasonably incurred by a television translator station or low power television station (as such terms are defined in subsection (k)) on or after January 1, 2017, in order for such station to relocate its television service from one channel to another channel or otherwise modify its facility as a result of the reorganization of broadcast television spectrum under subsection (b).

**(iii) For payments to FM broadcast stations**

Amounts made available to the TV Broadcaster Relocation Fund by paragraph (1) shall not be available to the Commission to make payments required by subsection (l) after April 13, 2020, unless, before making any such payments after such date, the Commission submits to Congress a certification that such payments are necessary to reimburse costs reasonably incurred by an FM broadcast station (as defined in subsection (l)) for facilities necessary for such station to reasonably minimize disruption of service as a result of the reorganization of broadcast television spectrum under subsection (b).

**(3) Unused funds rescinded and deposited into the general fund of the treasury**

**(A) Rescission and deposit**

If any unobligated amounts made available to the TV Broadcaster Relocation Fund by paragraph (1) remain in the Fund after the date described in subparagraph (B), such amounts shall be rescinded and deposited into the general fund of the Treasury, where such amounts shall be dedicated for the sole purpose of deficit reduction.

**(B) Date described**

The date described in this subparagraph is the earlier of—

- (i) the date of a certification by the Commission under subparagraph (C) that all reimbursements pursuant to subsections (b)(4)(A)(i) and (b)(4)(A)(ii) have been made and that all reimbursements pursuant to subsections (k) and (l) have been made; or
- (ii) July 3, 2023.

**(C) Certification**

If all reimbursements pursuant to subsections (b)(4)(A)(i) and (b)(4)(A)(ii) and all reimbursements pursuant to subsections (k) and (l) have been made before July 3, 2023, the Commission shall submit to the Secretary of the Treasury a certification that all such reimbursements have been made.

**(4) Administrative costs**

The amount of auction proceeds that the salaries and expenses account of the Commission is required to retain under section 309(j)(8)(B) of this title, including from the proceeds of the forward auction under this section, shall be sufficient to cover the administrative costs incurred by the Commission in making any reimbursements out of the TV Broadcaster Relocation Fund from amounts made available to that Fund by paragraph (1).

**(k) Payment of relocation costs of television translator stations and low power television stations**

**(1) Payment required**

From amounts made available under subsection (j)(2), the Commission shall reimburse costs reasonably incurred by a television translator station or low power television station on or after January 1, 2017, in order for such station to relocate its television service from one channel to another channel or otherwise modify its facility as a result of the reorganization of broadcast television spectrum under subsection (b). Only stations that are eligible to file and do file an application in the Commission's Special Displacement Window are eligible to seek reimbursement under this paragraph.

**(2) Limitation**

The Commission may not make reimbursements under paragraph (1) for lost revenues.

**(3) Duplicative payments prohibited**

In the case of a low power television station that has been accorded primary status as a Class A television licensee under section 73.6001(a) of title 47, Code of Federal Regulations—

(A) if the licensee of such station has received reimbursement with respect to such station under subsection (b)(4)(A)(i) (including from amounts made available under subsection (j)(2)(A)(i)), or from any other source, such station may not receive reimbursement under paragraph (1); and

(B) if such station has received reimbursement under paragraph (1), the licensee of such station may not receive reimbursement with respect to such station under subsection (b)(4)(A)(i).

**(4) Additional limitation**

The Commission may not make reimbursement under paragraph (1) for costs incurred to resolve mutually exclusive applications, including costs incurred in any auction of available channels.

**(5) Definitions**

In this subsection:

**(A) Low power television station**

The term "low power television station" means a low power TV station (as defined in section 74.701 of title 47, Code of Federal Regulations) that was licensed and transmitting for at least 9 of the 12 months prior to April 13, 2017. For purposes of the preceding sentence, the operation of analog and

digital companion facilities may be combined.

**(B) Television translator station**

The term “television translator station” means a television broadcast translator station (as defined in section 74.701 of title 47, Code of Federal Regulations) that was licensed and transmitting for at least 9 of the 12 months prior to April 13, 2017. For purposes of the preceding sentence, the operation of analog and digital companion facilities may be combined.

**(I) Payment of Relocation Costs of FM Broadcast Stations**

**(1) Payment required**

**(A) In general**

From amounts made available under subsection (j)(2), the Commission shall reimburse costs reasonably incurred by an FM broadcast station for facilities necessary for such station to reasonably minimize disruption of service as a result of the reorganization of broadcast television spectrum under subsection (b).

**(B) Limitation**

The Commission may not make reimbursements under subparagraph (A) for lost revenues.

**(C) Duplicative payments prohibited**

If an FM broadcast station has received a payment for interim facilities from the licensee of a television broadcast station that was reimbursed for such payment under subsection (b)(4)(A)(i) (including from amounts made available under subsection (j)(2)(A)(i)), or from any other source, such FM broadcast station may not receive any reimbursements under subparagraph (A).

**(2) FM broadcast station defined**

In this subsection, the term ‘FM broadcast station’ has the meaning given such term in section 73.310 of title 47, Code of Federal Regulations, and includes an FM translator, which has the meaning given the term “FM translator” in section 74.1201 of such title.

**(m) Rulemaking**

**(1) In general**

Not later than 1 year after March 23, 2018, the Commission shall complete a rulemaking to implement subsections (k) and (l).

**(2) Matters for inclusion**

The rulemaking completed under paragraph (1) shall include the development of lists of reasonable eligible costs to be reimbursed by the Commission pursuant to subsections (k) and (l), and procedures for the submission and review of cost estimates and other materials related to those costs consistent with the regulations developed by the Commission pursuant to subsection (b)(4).

**(n) Rule of construction**

(1) Nothing in subsections (j) through (m) shall alter the final transition phase completion date established by the Commission for full power and Class A television stations.

(Pub. L. 112–96, title VI, §6403, Feb. 22, 2012, 126 Stat. 225; Pub. L. 115–141, div. E, title V, §511, Mar. 23, 2018, 132 Stat. 563.)

AMENDMENTS

2018—Subsecs. (j) to (n). Pub. L. 115–141 added subsecs. (j) to (n).

**§ 1453. Unlicensed use in the 5 GHz band**

**(a) Modification of Commission regulations to allow certain unlicensed use**

**(1) In general**

Subject to paragraph (2), not later than 1 year after February 22, 2012, the Commission shall begin a proceeding to modify part 15 of title 47, Code of Federal Regulations, to allow unlicensed U–NII devices to operate in the 5350–5470 MHz band.

**(2) Required determinations**

The Commission may make the modification described in paragraph (1) only if the Commission, in consultation with the Assistant Secretary, determines that—

(A) licensed users will be protected by technical solutions, including use of existing, modified, or new spectrum-sharing technologies and solutions, such as dynamic frequency selection; and

(B) the primary mission of Federal spectrum users in the 5350–5470 MHz band will not be compromised by the introduction of unlicensed devices.

**(b) Study by NTIA**

**(1) In general**

The Assistant Secretary, in consultation with the Department of Defense and other impacted agencies, shall conduct a study evaluating known and proposed spectrum-sharing technologies and the risk to Federal users if unlicensed U–NII devices were allowed to operate in the 5350–5470 MHz band and in the 5850–5925 MHz band.

**(2) Submission**

The Assistant Secretary shall submit to the Commission and the Committee on Energy and Commerce of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate—

(A) not later than 8 months after February 22, 2012, a report on the portion of the study required by paragraph (1) with respect to the 5350–5470 MHz band; and

(B) not later than 18 months after February 22, 2012, a report on the portion of the study required by paragraph (1) with respect to the 5850–5925 MHz band.

**(c) Definitions**

In this section:

**(1) 5350–5470 MHz band**

The term “5350–5470 MHz band” means the portion of the electromagnetic spectrum between the frequencies from 5350 megahertz to 5470 megahertz.

**(2) 5850–5925 MHz band**

The term “5850–5925 MHz band” means the portion of the electromagnetic spectrum be-