relationship between the national government and the States or tribal governments, or on the distribution of power and responsibilities among the various levels of government or between the Federal Government and Indian tribes. Thus, the Agency has determined that Executive Order 13132, entitled “Federalism” (64 FR 43255, August 10, 1999) and Executive Order 13175, entitled “Consultation and Coordination with Indian Tribal Governments” (65 FR 67249, November 9, 2000) do not apply to this action. In addition, this action does not impose any enforceable duty or contain any unfunded mandate as described under Title II of the Unfunded Mandates Reform Act (UMRA) (2 U.S.C. 1501 et seq.).

This action does not involve any technical standards that would require Agency consideration of voluntary consensus standards pursuant to section 12(d) of the National Technology Transfer and Advancement Act (NTTAA) (15 U.S.C. 272 note).

X. Congressional Review Act

Pursuant to the Congressional Review Act (5 U.S.C. 801 et seq.), EPA has submitted a report containing this rule and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

List of Subjects in 40 CFR Part 180

Environmental protection, Administrative practice and procedure, Agricultural commodities, Pesticides and pests, Reporting and recordkeeping requirements.


Richard P. Keigwin, Jr.,
Director, Office of Pesticide Programs.

Therefore, 40 CFR chapter I is amended as follows:

PART 180—[AMENDED]

1. The authority citation for part 180 continues to read as follows:


2. Add §180.1352 to subpart D to read as follows:

§180.1352 Methyl-alpha-D-mannopyranoside (Alpha methyl mannoside): exemption from the requirement of a tolerance.

Residues of the biochemical pesticide Methyl-alpha-D-mannopyranoside (alpha methyl mannoside) are exempt from the requirement of a tolerance in or on all raw agricultural commodities.

[F.R. Doc. 2018–03671 Filed 2–21–18; 8:45 am]

BILLING CODE 6560–50–P

FEDERAL COMMUNICATIONS COMMISSION

47 CFR Part 76

[MB Docket No. 12–217; FCC 17–120]

Cable Television Technical and Operational Standards

AGENCY: Federal Communications Commission.

ACTION: Final rule.

SUMMARY: In this document, we modernize the Commission’s signal leakage and signal quality rules that apply to cable operators and other MVPDs and reflect the cable industry’s transition from analog to digital systems. These rules are intended to make sure that cable systems do not leak signals that could interfere with other services and ensure that subscribers receive high-quality picture and sound.

DATES: These rules are effective April 23, 2018, except the amendments to §§76.105(b) introductory text, 76.601(b)(1), 76.1610(f) and (g), and 76.1804 introductory text, which contain modified information collection requirements that have not been approved by OMB, subject to the Paperwork Reduction Act. The Federal Communications Commission will publish a document in the Federal Register announcing the effective date upon OMB approval. The incorporation by reference of certain publications listed in the rule is approved by the Director of the Federal Register as of April 23, 2018.

FOR FURTHER INFORMATION CONTACT: For additional information on this proceeding, contact Jeffrey Neumann, Jeffrey.Neumann@fcc.gov, of the Media Bureau, 202–2046 or Brendan Murray, Brendan.Murray@fcc.gov, of the Media Bureau, Policy Division, (202) 418–1573.

For additional information concerning the information collection requirements contained in this document, send an email to PRA@fcc.gov or contact Cathy Williams on (202) 418–2918.

SUPPLEMENTARY INFORMATION: This is a summary of the Commission’s Report and Order, FCC 17–120, adopted on September 22, 2017 and released on September 25, 2017. The full text of these documents is available for public inspection and copying during regular business hours in the FCC Reference Center, Federal Communications Commission, 445 12th Street SW, CY–A257, Washington, DC 20554. These documents will also be available via ECFS (http://www.fcc.gov/ecb/ecfs/). (Documents will be available electronically in ASCII, Word 97, and/or Adobe Acrobat.) The complete text may be purchased from the Commission’s copy contractor, 445 12th Street SW, Room CY–B402, Washington, DC 20554. To request these documents in accessible formats (computer diskettes, large print, audio recording, and Braille), send an email to fcc504@fcc.gov or call the Commission’s Consumer and Governmental Affairs Bureau at (202) 418–0530 (voice), (202) 418–0432 (TTY).

With this Report and Order (Order), we take another step toward modernizing our rules to reflect current technologies. Specifically, we update our signal leakage and signal quality rules that apply to cable operators to reflect the cable industry’s transition from analog to digital systems.

In 2012, the Commission adopted the Digital Cable Standards NPRM, 77 FR 61351, to seek comment on proposed digital “proof of performance” (i.e., signal quality) rules, signal leakage rules, and updates and corrections to our Part 76 rules. As the Commission explained in that NPRM, the purpose of the proof-of-performance rules is to require cable operators to deliver good-quality video and audio to subscribers. The Commission’s authority for adopting such rules stems from Section 624 of the Communications Act of 1934, as amended (the “Act”). The signal leakage rules prevent cable systems from emitting signals that can interfere with radio services, including certain aeronautical communication services.

The Commission originally adopted the current proof-of-performance and signal leakage rules before the advent of digital cable service, which is now widespread. According to SNL Kagan, almost 97 percent of cable video customers subscribe to digital service, and all major operators provide digital service. As a technical matter, our existing signal quality and interference rules are inapplicable to the digital technologies that cable operators use today. The Commission has not, to date, provided clear guidance on how to ensure digital signal quality and safeguard against digital systems leaking electromagnetic signals into the aeronautical bands. Therefore, in the Digital Cable Standards NPRM, the Commission proposed to update its technical rules to incorporate standards and procedures that cable operators and local franchising authorities (LFAs)
could use to test signal quality and signal leakage on digital cable systems.

The Commission’s analog proof-of-performance rules currently include testing requirements, technical standards, testing methods, recordkeeping requirements, and procedures to resolve complaints about signal quality to ensure that cable operators provide their subscribers with good quality signals. In the Digital Cable Standards NPRM, the Commission proposed to replicate this framework by adopting similar rules that would apply to digital cable service. Specifically, the Commission proposed to require Quadrature Amplitude Modulation (QAM) based digital cable systems to test signals in accordance with the Society of Cable Telecommunications Engineers (SCTE) Digital Cable Network Interface Standard, SCTE 40 and maintain records that demonstrate the results of such tests. The Commission sought comment on standards or guidance for testing cable systems that do not rely on QAM because non-QAM systems rely on varied technologies, and the Commission was not aware of any industry standards that non-QAM operators could use to test their signal quality. Accordingly, the Commission sought comment on an alternative proposal under which non-QAM providers would file a proof-of-performance plan with the Commission. The Commission also asked whether there were “any entities currently analyzing and developing standards for visual signal quality,” or whether a subjective analysis of visual signal quality could be used to demonstrate proof-of-performance.

As the Commission explained in the Digital Cable Standards NPRM, cable systems have the potential to interfere with over-the-air users of spectrum if the cable operator does not properly maintain its plant. The Commission’s existing rules are designed to minimize interference to aircraft communications, and include yearly testing and reporting requirements. In the Digital Cable Standards NPRM, the Commission proposed to add new interference standards that would apply to digital signals to accompany the existing analog signal interference standards. The proposed digital standards would provide protection to aircraft communication from digital cable plant signal leakage that is equivalent to that provided via our existing analog standards. The Commission also sought comment on whether to make other modifications to rules to protect other frequencies based on the increased bandwidth of modern cable systems.

The Commission also proposed updates to Part 76 of our rules. In the Digital Cable Standards NPRM, the Commission proposed to make necessary updates to various standards, reorganize certain sections of Part 76 to make them easier to read, make numerous rule corrections, and remove numerous obsolete rules and references from the Code of Federal Regulations. These changes are minor and non-substantive and intended to make it easier to comprehend and comply with the Commission’s cable rules.

As the Commission proposed in the Digital Cable Standards NPRM, we will require cable operators to adhere to SCTE 40, the technical standard that ensures that cable operators provide “good quality” signals to their subscribers. We decline, however, to adopt the proof-of-performance testing and recordkeeping rules proposed in the Digital Cable Standards NPRM. The record and the Commission’s log of consumer complaints indicate that there is not a continuing pattern of technical problems with digital signals as historically existed with analog signals. We attribute this, in part, to the process of error correction that the QAM standard uses; it generally ensures that digital signals have suitable picture and audio quality even under suboptimal conditions. Therefore, we conclude that a testing regime for digital service is not necessary, and that an operator’s adherence to SCTE 40 is sufficient to ensure consumers are receiving good quality signals. We also decline at this time to adopt performance standards for non-QAM cable systems pending further developments and recommendations from industry standards bodies. Below, we discuss (1) why the SCTE 40 standard is the proper standard to ensure quality digital signals for QAM-based cable operators, (2) why we delay adoption of a standard for non-QAM-based cable operators, (3) why a rigid testing regime is unnecessary, and (4) why subjective testing and set-top box requirements are not necessary at this time. We also dismiss as moot pending requests for exemption from our proof-of-performance rules.

Section 624(e) of the Act requires that the Commission “establish minimum technical standards relating to cable systems’ technical operation and signal quality” and “update such standards periodically to reflect improvements in technology.” Pursuant to that mandate, we adopt the Commission’s proposal to adopt the SCTE 40 standard. QAM-based cable operators that adhere to this standard provide good quality signals to consumers, and a rule that requires cable operators to adhere to it will not increase their regulatory burden. SCTE 40, the “Digital Cable Network Interface Standard,” was developed by the Society of Cable Telecommunications Engineers to define the characteristics and specifications of interface between a cable system and commercially available digital cable products, such as set-top boxes. The overwhelming majority of cable operators use QAM to modulate their digital services, but as the Commission explained in the Digital Cable Standards NPRM, QAM use can vary across systems: “Unlike analog cable transmission . . . QAM is not uniform and may appear in a variety of configurations such as 64 QAM, 256 QAM, and potentially 1024 QAM, each requiring different performance standards.” The SCTE 40 standard recognizes these differences and incorporates different performance standards for each QAM configuration. Moreover, QAM-based cable operators have followed the SCTE 40 standard for more than a decade because the standard is an essential part of the cable industry’s reliance on CableCARD. Therefore, conforming to the standard should not add any additional burdens on cable operators and commenters generally supported its use for this purpose. The standard sets relative channel power limits, carrier-to-noise ratios, and adjacent-channel characteristics that reflect the minimum technical standards necessary to ensure that cable operators deliver quality QAM signals to their subscribers.

The standard is for free online at http://www.scte.org/SCTEDocs/Standards/SCTE%2040%202016.pdf, and therefore we conclude that it is reasonably available. For these reasons, we conclude that SCTE 40 provides the proper “minimum technical standards relating to cable systems’ technical operation and signal quality,” as required by Section 624(e) of the Act. Consistent with Section 624(e)’s requirement that we update the standards in our rules “periodically to reflect improvements in technology” and to reflect the technology that cable operators rely on today, we incorporate the current version of SCTE 40, which was adopted in 2016.

The City of New York suggests that we set a timeframe for when we will next review these standards. We agree that updating these performance standards in a timely manner is important, but because the SCTE standard is not updated on a set schedule, we do not believe that we need to develop a rigid timeline for review. The SCTE originally adopted the SCTE 40 standard in 2001, and
updated it in 2003, 2004, 2011, and 2016. If the SCTE updates the standard again, and the standard does not change fundamentally, we delegate rulemaking authority to the Media Bureau to update the Commission’s rules to reference the newest standard.

Non-QAM Based Proof of Performance Standard
We will delay adopting a proof-of-performance standard for non-QAM cable providers, such as internet Protocol television (IPTV)-based providers, because the record before us does not include any minimum technical standards that could apply to non-QAM signals. As stated above, in the Digital Cable Standards NPRM, the Commission sought comment on whether any industry standards exist for signal quality in non-QAM digital cable systems. Although the National Telecommunications Cooperative and The Organization for the Promotion and Advancement of Small Telecommunications Companies (NTCA/OPASTCO) reference certain standards that “may apply to IPTV systems,” they note that “these best practices and standards are relatively new, and a number of [rural local exchange carrier] IPTV systems utilizing many different types of equipment and software were deployed prior to their development and release” so they may not apply to all IPTV systems. No other comments recommended a standard that could apply to these systems.

Accordingly, we believe it would be better to allow industry more time to reach consensus on a non-QAM-specific proof-of-performance standard before adopting a standard for regulatory purposes. When parties can identify and recommend applicable proof-of-performance standards, then we will revisit this issue. We note that in the meantime, under our existing rules non-QAM providers must work with LFAs to address any complaints regarding signal quality.

We will not require non-QAM operators to submit proof-of-performance plans for Commission approval, which is a scheme upon which the Commission sought comment in the Digital Cable Standards NPRM. Cable operators that use technologies other than QAM to deliver video strongly oppose that process as overly burdensome; they argue that non-QAM operators are small and do not have in-house resources to develop signal quality standards and testing regimes in the absence of an industry standard. We find arguments persuasive; this process would put too large a burden on small cable operators, and likely result would be a variety of metrics rather than a standard as Section 624(e) requires.

We are not persuaded by NATOA’s argument that this case-by-case scheme would “provide regulatory clarity, promote competitive neutrality, and ensure that subscribers to such non-QAM systems enjoy technical and signal quality protections comparable to those enjoyed by subscribers to more traditional QAM-based systems.” To the contrary, such a scheme would provide no regulatory clarity because each operator would need to develop a testing plan without any guidance from the Commission. It would impose heavier burdens on non-QAM providers than their QAM-based competitors that will follow SCTE 40 rather than develop performance standards in-house. We also reject NATOA’s proposal that “[e]ach channel tested for proof-of-performance should be observed for at least two minutes and the results of this observation recorded” by the cable operator. We believe that proposal would be subjective, non-technical, and would not be standardized. Accordingly, we do not believe that such a proposal is the type of “minimum technical standard” contemplated under Section 624(e).

We conclude that we need not require the testing regime (and attendant certification and recordkeeping requirements) proposed in the Digital Cable Standards NPRM. We come to this conclusion because cable operators have demonstrated that if they design, deploy, and maintain systems that meet or exceed the specifications in SCTE 40, then they are able to deliver good-quality video and audio to their subscribers without testing. As ACA and NCTA point out, the error correction inherent in QAM service helps ensure consistent quality for subscribers. In addition, digital signals are less susceptible to errors introduced by noise and the picture degradation that amplifiers add to analog signals. Nonetheless, some LFA commenters reported problems with pixelation, tiling, and loss of audio. These appear to be isolated incidents, rather than a continuation of a trend of poor signal quality that existed when cable operators delivered analog signals, and the Commission has received few complaints about cable operators’ signal quality. Even if there were a trend of poor quality, the record does not reflect that testing would yield any additional information necessary to ensure quality signals.

Moreover, according to the record, the costs associated with testing are high and outweigh the benefits that a federal testing mandate would provide. NCTA states that due to equipment and personnel costs, testing for compliance with SCTE 40 can cost “just under a million dollars to multiple millions of dollars simply to conduct a one-time test” of all of a large cable operator’s systems, and that testing can be disruptive to subscribers. NATOA argues that “periodic test reports generate data that assist local authorities with complaint resolution, monitoring performance, and other regulatory responsibilities.” A rigid testing mandate is not necessary to achieve these benefits. Section 76.1713 of our rules requires cable operators to “establish a process for resolving complaints from subscribers about the quality of the television signal delivered,” and maintain aggregate data about those complaints for purposes of Commission and LFA review. This rule section already delivers the benefits that NATOA enumerates without a costly, rigid testing requirement.

Nor does the statute require a testing regime. Rather, the statute directs us to establish “minimum technical standards,” and neither the Act nor the legislative history indicates that Congress wanted the Commission to require tests in the absence of service problems. When a consumer complains about signal quality, the cable operator and the local franchisor are better suited than the Commission to work to resolve the problem using industry-standard methods and recommended practices. We invite LFAs and others to keep us informed about the complaints that they receive from their residents; we will consider adopting more rigorous requirements if systemic signal quality problems are demonstrated.

Finally, with respect to analog testing, we adopt the Commission’s proposal to “simplify the formula by which . . . operators determine how many channels must be tested to ensure compliance with the proof-of-performance rules.” Specifically, the Commission proposed to require cable operators to test five channels on systems with a channel capacity of less than 550 MHz, and to require cable operators to test ten channels on systems with a channel capacity of 550 MHz or more. NCTA is the only commenter to address this proposal and “agree[s] with the effort to reduce the number of channels that must be tested to demonstrate compliance with the technical standards.” We adopt this rule for the same reasons the Commission proposed it: The rule change “simplifies compliance for all operators that will continue to ensure that a sufficient representative sample of channels is
We also decline to adopt subjective picture quality and set-top box quality rules. In the Digital Cable Standards NPRM, the Commission noted that cable operators could reduce a channel’s visual quality via compression even if the signal itself remains strong and error free. To address this concern, the Commission sought comment on whether to adopt a subjective visual picture quality and auditory sound quality test to ensure that digital cable subscribers receive high quality television images and sound. The Commission also sought comment on whether set-top boxes should play a role in how we assess picture quality of digital cable signals, because set-top boxes can affect the quality of the picture that the viewer sees. We find that the record is insufficient to take any action on these two items, producing neither standards for perceived video quality nor the output of set-top boxes. As some parties point out, subjective tests are, by their nature, difficult to administer. Moreover, the record has not demonstrated that there is a serious problem regarding picture quality that we need to address. Therefore, we decline to extend proof-of-performance beyond the signal quality provided to the consumer’s home by the MVPD. We also reject the suggestion that we require proof-of-performance tests for CableCARDs because, as NCTA points out, CableCARDs are responsible solely for decryption of cable programming and do not affect signal quality or display.

Six cable operators have filed requests for exemption from our proof-of-performance rules because those operators cannot apply the analog standards to their digital systems. To the extent these operators utilize QAM-based technologies, as discussed above, we conclude that their adherence to SCTE 40 ensures good signal quality. Accordingly, we dismiss as moot those requests for exemption from the proof-of-performance rules consistent with this order and instruct these cable operators and the rest of the cable industry deploying QAM-based technologies to adhere to SCTE 40 2016, as required by our new proof of performance rule.

For the request pertaining to a non-QAM-based system, and for other operators who use non-QAM and non-analog technologies, such as those based on Internet Protocol video over fiber-optics, we will remain vigilant of the duty of those operators to establish and use a process to resolve customer complaints for now and will not require them to adhere to SCTE 40, which does not align technically with the design of their systems. As we explain above, we believe it would be better to allow industry more time to reach consensus on a non-QAM-specific proof-of-performance standard before adopting a standard for regulatory purposes since the record before us does not include any minimum technical standards that could apply to non-QAM signals. If the Commission establishes metrics-based or testing-based rules in the future to cover those non-QAM technologies, those operators will be subject to those rules. As a result, we dismiss as moot the petition for exemption filed by a non-QAM system operator.

In this Section, we adopt the signal leakage rules for MVPDs utilizing digital signals on coaxial cable systems proposed in the Digital Cable Standards NPRM with minor modifications. In the NPRM, the Commission explained the purpose of our cable signal leakage rules: MVPDs that operate coaxial cable plants (“coaxial cable systems”) use frequencies allocated for myriad over-the-air services within their system. Under ideal circumstances, those signals are confined within the cable system and do not cause interference with the over-the-air users of those frequencies. However, under certain circumstances, a coaxial cable plant can “leak” and interfere with over-the-air users of spectrum.

To prevent this interference, the Commission’s rules impose four major requirements. First, MVPDs that operate coaxial cable plants (referred to as simply “MVPDs” below) must notify the Commission and provide geographic information about their systems before they use frequencies in the aeronautical radio frequency bands above an average power level equal to or greater than 10–4 watts across a 25 kHz bandwidth in any 160 microsecond time period. The Commission refers to this requirement as the Aeronautical Frequency Notification (“AFN”) requirement. Second, MVPDs must offset their channel frequencies to minimize interference from analog coaxial cable systems to aircraft communication and aircraft navigation services, such as the Instrument Landing System and VHF Omnidirectional Range service. Third, MVPDs must ensure that their system design, installation and operation comply with the rules and conduct compliance testing four times per year. Finally, MVPDs must calculate their cumulative signal leakage and report their results to the Commission once per year.

These requirements protect against interference from analog signals, but have not been updated to protect against interference from digital signals. Therefore, in the Digital Cable Standards NPRM, the Commission proposed to update the signal leakage rules to apply to digital operations. First, the Commission proposed a trigger of 10–5 watts average power over a 30 kHz bandwidth in any 2.5 millisecond time period for the AFN requirement with respect to digital signals. The Commission explained that this proposed trigger would impose only limited burdens on cable operators because it would affect a small number of systems and was vital to prevent interference to aeronautical users and international satellite search and rescue services. Second, the Commission proposed not to apply the channel frequency offset requirement to digital signals. The Commission reasoned that the analog channel frequency offset does not make sense to apply to digital signals because the offset is meant to offset the peak power of a signal from interfering with aeronautical frequencies, but digital signals, unlike analog signals, distribute their power evenly throughout the 6 MHz channel.

Third, because the Commission proposed not to adopt a digital signal offset, the Commission proposed to correlate the maximum leakage level for digital signals to that of analog signals, and to require digital leakage in excess of this threshold to be noted and repaired within a reasonable time. The Commission reasoned that this change would help prevent harmful interference due to cable signal leakage. As discussed below, we adopt slightly revised versions of each of these proposals.

Finally, the Commission sought comment on miscellaneous issues, each of which is discussed below, including whether to change the signal leakage testing methodology, whether and how to test for leakage in bands above 400 MHz, and a proposal to modify the formula for calculating the cumulative leakage index (“CLI”).

We adopt the digital AFN filing trigger proposed in the Digital Cable Standards NPRM (10–5 watts over a 30 kHz bandwidth in any 2.5 millisecond time period), and clarify that this filing trigger will apply to digital signals only; the analog trigger will not change. The Commission tentatively concluded in the NPRM that the power threshold should remain unchanged when considering interference from digital, rather than analog, coaxial cable systems, but that the measurement window needed to be adapted. The Commission based its proposal on the fact that unlike analog signals, digital
signals distribute power relatively evenly throughout the channel and, therefore, throughout the bandwidth of the devices receiving the interference.

NCTA suggests two revisions to the Commission’s proposal. First, NCTA argues that the Commission’s proposed rule would require cable systems that “operate aural subcarriers of analog television channels at levels that fall between 10–4 watts and 10–5 watts” to file AFNs. NCTA asserts that requiring operators that carry analog signals at those levels to file AFNs would have no effect on public safety, and would burden cable operators. Instead NCTA suggests that the new power level trigger should apply to digital signals only, and the analog level should remain unchanged. NCTA’s recommendation is consistent with the intent of the Commission’s proposal in the Digital Cable Standards NPRM, which was to trigger the AFN filing requirement only for systems that had withdrawn their AFNs because they operate at a power level lower than the analog threshold, but operate at a power higher than the digital threshold that we adopt here. Therefore, we adopt NCTA’s recommendation.

NCTA also suggests that the Commission align the power threshold for digital signal notifications with the power thresholds discussed in Section III.B.3 below by lowering the AFN threshold by a commensurate amount. We decline to adopt this recommendation. We believe that the threshold for giving the Commission notice of operation, location, and reach should be keyed to the protection of the Marine and Aeronautical Distress and Safety frequency. The burden of filing a one-time notification is low, and the benefit to public health and safety of being able to identify potential sources of interference is significant. We exempt all-fiber-optic cable systems from the AFN filing trigger and instead allow cable operators with such systems to notify the Commission that the system operates below the relevant power level. Verizon asserts that the signal leakage rules should not apply to operators that, like Verizon, rely primarily on fiber optic systems that are less likely to leak electromagnetic signals. Verizon explains that its cable service is “delivered over a fiber optic network that delivers signals to customer premises over fiber optic cables using optical wavelengths,” and that “[s]uch a network would not represent any threat of interference, because fibers do not use RF frequencies.” It further explains that its optical network terminal "has been designed and built in a manner that operates at a low power level—below the thresholds that would trigger testing under current signal leakage testing standards.” We agree that all-fiber-optic systems pose less interference risk than other systems and should be subject to less burdensome signal leakage requirements. Specifically, because fiber optic systems with optical network terminals at the customer premises pose minimal risk of signal leakage, such systems need only report in the existing Form 321, Aeronautical Frequency Notification, that their power level is sufficiently low to qualify for a filing exemption. Such cable operators may choose this option instead of complying with the digital AFN filing trigger. Cable operators that do not have optical network terminals at the customer premises or are unable to certify that they operate below a digital threshold of 37.55 dBmV must comply with the digital AFN filing trigger. We find that this approach will appropriately enable cable operators that are unlikely to cause harmful interference to continue their current practice with regard to signal leakage reporting, while still ensuring that the Commission is informed of potential interference risks.

As proposed in the Digital Cable Standards NPRM, we decline to apply the channel frequency offset requirements that apply to analog signals to digital signals. Analog television channel power levels are significantly higher at the center frequencies of the subcarriers contained within the channel. Digital television channel power levels do not share this characteristic because a digital signal does not concentrate all of its power in a narrow carrier like an analog signal does and because an aircraft receiver’s bandwidth should be no wider than 25 kHz, the resulting increase in potential interference is 1.2 dB. The Commission proposed to amend the general signal leakage rule (including the signal leakage monitoring, logging, and repair rule) and the CLI rules accordingly. We adopt the proposed general signal leakage limit that the Commission proposed for digital signals. NATOA and NCTA were the only commenters that addressed the Commission’s proposal to make the general signal leakage threshold for digital signals 1.2 dB lower than the analog threshold, and both supported the proposal. For the reasons the Commission provided in the Digital Cable Standards NPRM, we conclude that the 1.2 dB reduction for digital signals is a technically sound proposal, and therefore we adopt it.

The Commission noted that this change could require cable operators that carry digital signals to obtain more sensitive leakage detection equipment because our rules require regular monitoring of systems that operate in the designated aeronautical communications bands. The Commission sought comment on the burdens that this would impose on cable operators and the extent to which they outweigh the benefits of signal leakage detection and prevention. In response, Arcom Digital, LLC described its low-cost QAM Snare system, which is sensitive enough to detect “QAM channel leakage signals that are as low as 0.13µV/m at 100 MHz and as low as 0.89µV/m at 700 MHz.” NATOA described an alternative test methodology “that would allow cable operators to continue to use existing signal leakage detection equipment with the same sensitivity, measurement procedures, calculations and reporting.” Under NCTA’s proposal (the “David Large Methodology”), the cable operator simply carries a test signal that has an...
average power level equal to the power level of the strongest analog cable television carrier on the cable system. To ensure that digital signal leakage is at least 1.2 dB lower than analog signals, the cable operator keeps all digital signal power levels at least 1.2 dB lower than the test signal. Because Arrcom Digital, LLC and NCTA have demonstrated multiple ways to achieve our intended result, we grant NCTA’s request that the Commission not impose any specific test methodology, but rather adopt a flexible rule that would allow a cable operator to “demonstrate compliance using a different methodology.” Our results-oriented regulation will ensure that cable operators monitor digital cable signal leakage in a less burdensome manner than the one we proposed.

We adopt the level that the Commission proposed to trigger the signal leakage rules, and clarify that proposal as NCTA requests. The Commission proposed to modify the level “at which the [signal leakage] rules become applicable, the threshold at which leaks must be included in the [CLI] calculation, and the maximum leakage and CLI permissible,” for digital signals consistent with the 1.2 dB reduction from the analog signal levels. NCTA states that under the David Large Methodology, “no additional change would be required to [the] CLI calculations since digital power levels would be required to be below the level of the leakage test signal.” We find that NCTA’s proposal is consistent with the Commission’s reasoning in the Digital Cable Standards NPRM. Therefore, in a scenario where a cable operator maintains digital signals at least 1.2 dB below the analog leakage test signal, the operator may perform an “analogue” test on the analog test signal and will be restricted to the maximum CLI for analog signals (64 for I∞). However, we do not require operators to do this, and should they elect to carry digital signals at the same power levels as the analog test signal, or to test the digital signals directly, the reduced “digital” CLI applies.

We decline to adjust our signal leakage rules at this time to reflect recent increases in the bandwidth that cable systems use. As the Commission noted in the Digital Cable Standards NPRM, the last time the Commission updated the signal leakage rules, “400 MHz was near the upper limit of the bandwidth of coaxial cable systems deployed,” but today “coaxial cable systems routinely deploy in excess of 750 MHz, with deployments of up to 1 GHz exist.” Therefore, the Commission sought comment on potential and actual interference from coaxial cable systems to bands above 400 MHz. While such interference may exist (particularly in the 700 MHz band), there is insufficient evidence on the record to take action at this time.

We eliminate the I3000 method of calculating CLI as the Commission proposed because cable operators have abandoned it in favor of the more effective I∞ method. The I∞ method of calculating CLI requires cable operators to treat all leaks equally, rather than discounting leaks the further they are from the geographic center of the cable system. In the Digital Cable Standards NPRM, the Commission reasoned that cable systems now cover much larger geographical areas than they did when the Commission first adopted the rules, which can make the I3000 formula an inadequate way to detect significant leaks. We believe that these changes will make it easier to understand and comply with our cable rules. Accordingly, the Commission proposed to limit the application of I3000 to systems with a total geographic diameter of less than 160 km. We received no comments on this proposal, and careful analysis of filings from operators over the last 10 years shows that the overwhelming majority of operators utilize the I∞ calculation. Therefore, in the interest of simplifying both the submission of information to the Commission, and simplifying the analysis of this data, we instead decide to eliminate the I3000 formula. Operators previously using I3000 will find that less data collection is necessary to submit an I∞ calculation, and so we find no reason to continue accepting and analyzing two separate calculation methods.

In the Digital Cable Standards NPRM, the Commission proposed to “remove references to effective dates that have passed, make editorial corrections, delete obsolete rules, update various technical standards that are incorporated by reference into our rules, and clarify language in Part 76 of our rules.” The proposed changes are non-substantive and were unopposed in the record. Accordingly, we adopt those proposals. NATOA recommended several changes to Part 76 of our rules that go beyond our goal of updating our rules and making them easier to follow. These proposals are substantive in nature, and are beyond the stated intent of this proceeding. Moreover, because NATOA’s proposed rule changes were not raised for comment in the Digital Cable Standards NPRM, nor a logical outgrowth of the rule changes proposed in that NPRM, there is insufficient notice and comment under the Administrative Procedure Act for the Commission to adopt such proposals. As required by the Regulatory Flexibility Act of 1980, as amended (RFA), an Initial Regulatory Flexibility Analysis (IRFA) was incorporated in the Notice of Proposed Rule Making (NPRM). The Commission sought written public comment on the proposals in the NPRM, including comment on the IRFA. This present Final Regulatory Flexibility Analysis (FRFA) conforms to the RFA. This Report and Order allows the Commission to fulfill its congressional mandate to establish “minimum technical standards relating to cable systems’ technical operation and signal quality” and “update such standards periodically to reflect improvements in technology,” as stated in the Communications Act. It will reduce malfunctions by setting proof-of-performance rules that require operators to ensure that their systems are consistent with industry standards designed to deliver high quality signals, which means that consumers will receive good quality pictures and sound. The Report and Order also makes modifications throughout Part 76 of the Commission’s rules to remove outdated language, correct citations, and make other minor or non-substantive updates. Commenters raised concerns that the proposed reporting requirements, which would have required them to develop a signal quality test and file the results of that test with the Commission, would impose an undue burden on small businesses. After analyzing the responses of commenters, the Commission concludes that cable operators who design, deploy, and maintain a system which meets or exceeds the specifications in SCTE 40 will consistently provide a service that meets or exceeds the specifications in SCTE 40. The Commission also makes modifications to Part 76 to remove outdated language, correct citations, and make other minor or non-substantive updates. As many commenters highlighted, Quadrature Amplitude Modulated (“QAM”) services are designed with error correction ability which helps to ensure consistent quality for subscribers. Additionally, as opposed to analog, digital signals are far less susceptible to errors introduced by noise and the picture degradation amplifiers add.
Pursuant to the Small Business Jobs Act of 2010, the Commission is required to respond to any comments filed by the Chief Counsel for Advocacy of the Small Business Administration (SBA), and to provide a detailed statement of any change made to the proposed rules as a result of those comments. The Chief Counsel did not file any comments in response to the proposed rules in this proceeding.

The RFA directs agencies to provide a description of, and where feasible, an estimate of the number of small entities that may be affected by the proposed rules, if adopted. The RFA generally defines the term “small entity” as having the same meaning as the terms “small business,” “small organization,” and “small governmental jurisdiction.” In addition, the term “small business” has the same meaning as the term “small business concern” under the Small Business Act. A “small business concern” is one which: (1) Is independently owned and operated; (2) is not dominant in its field of operation; and (3) satisfies any additional criteria established by the Small Business Administration (SBA).

Cable and Other Program Distribution. Since 2007, these services have been defined within the broad economic census category of Wired Telecommunications Carriers; that category is defined as follows: “This industry comprises establishments primarily engaged in operating and/or providing access to transmission facilities and infrastructure that themselves transmit voice, data, text, sound, and video using wired telecommunications networks. Transmission facilities may be based on a single technology or a combination of technologies.” The SBA has developed a small business size standard for this category, which is: All such firms having 1,500 or fewer employees. According to Census Bureau data for 2007, there were a total of 955 firms in the subcategory of Cable and Other Program Distribution that operated for the entire year. Of this total, 939 firms had employment of 999 or fewer employees, and 16 firms had employment of 1000 employees or more. Thus, under this size standard, the Commission believes that a majority of firms operating in this industry can be considered small.

Cable Companies and Systems (Rate Regulation Standard). The Commission has also developed its own small business size standards, for the purpose of cable rate regulation. Under the Commission’s rules, a “small cable company” is one serving 400,000 or fewer subscribers, nationwide. Industry data indicate that, of 1,076 cable operators nationwide, all but 11 are small under this size standard. In addition, under the Commission’s rules, a “small system” is a cable system serving 15,000 or fewer subscribers. Industry data indicate that, of 6,635 systems nationwide, 5,802 systems have under 10,000 subscribers, and an additional 302 systems have 10,000–19,999 subscribers. Thus, under this second size standard, the Commission believes that most cable systems are small.

Cable System Operators. The Act also contains a size standard for small cable system operators, which is “a cable operator that, directly or through an affiliate, serves in the aggregate fewer than 1 percent of all subscribers in the United States.” The Commission defined that an operator serving fewer than 1,500 or fewer subscribers shall be deemed a small operator. If its annual revenues, when combined with the total annual revenues of all its affiliates, do not exceed $250 million in the aggregate. Industry data indicate that, of 1,076 cable operators nationwide, all but 10 are small under this size standard. We note that the Commission neither requests nor collects information on whether cable system operators are affiliated with entities whose gross annual revenues exceed $250 million, and therefore we are unable to estimate more accurately the number of cable system operators that would qualify as small under this size standard.

Open Video Services. Open Video Service (OVS) systems provide subscription services. The open video system (“OVS”) framework was established in 1996, and is one of four statutorily recognized options for the provision of video programming services by local exchange carriers. The OVS framework provides opportunities for the distribution of video programming other than through cable systems. Because OVS operators provide subscription services, OVS falls within the SBA small business size standard covering cable services, which is “Wired Telecommunications Carriers.” The SBA has developed a small business size standard for this category, which is: All such firms having 1,500 or fewer employees. To gauge small business prevalence for the OVS service, the Commission relies on data currently available from the U.S. Census for the year 2007. According to that source, there were 3,188 firms that in 2007 were Wired Telecommunications Carriers. Of these, 3,144 operated with less than 1,000 employees, and 44 operated with more than 1,000 employees. However, as to the latter 44 there is no data available that shows how many operated with more than 1,500 employees. Based on this data, the majority of these firms can be considered small. In addition, we note that the Commission has certified some OVS operators, with some now providing service. Broadband service providers (“BSPs”) are currently the only significant holders of OVS certifications or local OVS franchises. The Commission does not have financial or employment information regarding the entities authorized to provide OVS, some of which may not yet be operational. Thus, at least some of the OVS operators may qualify as small entities. The Commission further notes that it has certified approximately 45 OVS operators to serve 116 areas, and some of these are currently providing service. Affiliates of Residential Communications Network, Inc. (RCN) received approval to operate OVS systems in New York City, Boston, Washington, DC, and other areas. RCN has sufficient revenues to assure that they do not qualify as a small business entity. Little financial information is available for the other entities that are authorized to provide OVS and are not yet operational. Given that some entities authorized to provide OVS service have not yet begun to generate revenues, the Commission concludes that up to 44 OVS operators (those remaining) might qualify as small businesses that may be affected by the rules and policies adopted herein.

Satellite Master Antenna Television (SMATV) Systems, also known as Private Cable Operators (PCOs). SMATV systems or PCOs are video distribution facilities that use closed transmission paths without using any public right-of-way. They acquire video programming and distribute it via terrestrial wiring in urban and suburban multiple dwelling units such as apartments and condominiums, and commercial multiple tenant units such as hotels and office buildings. SMATV systems or PCOs are now included in the SBA’s broad economic census category, “Wired Telecommunications Carriers,” which was developed for small wireline firms. Under this category, the SBA deems a wireline business to be small if it has 1,500 or fewer employees. Census data for 2007 indicate that in that year there were 1,906 firms operating businesses as wired telecommunications carriers. Of that, 1,906, 1,880 operated with 999 or fewer employees, and 26 operated with 1,000 employees or more.
Based on this data, we estimate that a majority of operators of SMATV/PCO companies were small under the applicable SBA size standard.

Under these new rules, cable operators that use QAM to modulate their signals need only comply with the SCTE 40 standard in lieu of testing digital signals. Cable operators will also be required to file Aeronautical Frequency Notifications with the Commission if they operate at a certain power level. These notifications are necessary to ensure that cable operators’ signals do not interfere with aeronautical frequencies that are vital to airplane safety and navigation.

The RFA requires an agency to describe any significant, specifically small business, alternatives that it has considered in reaching its proposed approach, which may include the following four alternatives (among others): “(1) the establishment of differing compliance or reporting requirements or timetables that take into account the resources available to small entities; (2) the clarification, consolidation, or simplification of compliance and reporting requirements under the rule for such small entities; (3) the use of performance rather than design standards; and (4) an exemption from coverage of the rule, or any part thereof, for such small entities.”

The Digital Cable Standards NPRM proposed to adopt rules analogous to the Commission’s analog proof-of-performance rules which include a testing requirement, technical standards, testing methods, recordkeeping requirements, and procedures to resolve complaints about signal quality. The changes adopted in this Report and Order instead do not impose testing and reporting burdens this Report and Order instead do not impose testing and reporting burdens that cable operators deliver quality QAM signals to their subscribers and is discussed more fully elsewhere in this preamble. The standard is freely available online at www.scte.org/SCTEDocs/Standards/SCTE%2040%202016.pdf, and therefore we conclude that it is reasonably available. CTA—542—D defines the frequency allocations for channel numbers on cable systems and is reasonably available for retail purchase from various sources and from the Consumer Technology Association directly at standards.cta.tech.

Report to Congress: The Commission will send a copy of the Report and Order, including this FRFA, in a report to Congress pursuant to the Congressional Review Act. In addition, the Commission will send a copy of the Report and Order, including this FRFA, to the Chief Counsel for Advocacy of the SBA. A copy of the Report and Order and FRFA (or summaries thereof) will also be published in the Federal Register.

The Commission will send a copy of the Report and Order in MB Docket No. 12–217 in a report to be sent to Congress and the Government Accountability Office pursuant to the Congressional Review Act, see 5 U.S.C. 801(a)(1)(A). Accordingly, it is ordered that, pursuant to the authority found in Sections 1, 4(i), 4(j), 301, 302a, 303, 307, 308, 624, and 624A of the Communications Act of 1934, as amended, 47 U.S.C. 151, 154(i), 154(j), 301, 302a, 303, 307, 308, 544, and 544a, this Report and Order is adopted.

It is further ordered that the Commission’s Consumer and Governmental Affairs Bureau, Reference Information Center, shall send a copy of this Report and Order in MB Docket No. 12–217, including the Final Regulatory Flexibility Analysis, to the Chief Counsel for Advocacy of the Small Business Administration.

It is further ordered that the Commission shall send a copy of this Report and Order in MB Docket No. 12–217 in a report to be sent to Congress and the Government Accountability Office pursuant to the Congressional Review Act, see 5 U.S.C. 801(a)(1)(A).

List of Subjects in 47 CFR Part 76

Administrative practice and procedure, Cable television, Equal employment opportunity, Incorporation by reference, Political candidates, Reporting and recordkeeping requirements.

For the reasons set forth in the preamble, the Federal Communications Commission amends part 76 of title 47 of the Code of Federal Regulations as follows:

PART 76—MULTICHANNEL VIDEO AND CABLE TELEVISION SERVICE

1. The authority citation for part 76 continues to read as follows:


2. Amend §76.55 by revising the Note to paragraph (d) to read as follows:

§76.55 Definitions applicable to the must-carry rules.

* * * * *

Note to Paragraph (d): For the purposes of this section, for over-the-air broadcast, a good quality signal shall mean a signal level of either −45 dBm for analog VHF signals, −49 dBm for analog UHF signals, or −61 dBm for digital signals (at all channels) at the input terminals of the signal processing equipment.

* * * * *

3. Amend §76.56 by revising paragraph (a)(1)(i) and the introductory text to paragraph (b) to read as follows:

§76.56 Signal carriage obligations.

(1) * * *

(i) Systems with 12 or fewer usable activated channels, as defined in §76.55(a)(i), shall be required to carry the signal of one such station;

* * * * *

(b) Carriage of local commercial television stations. A cable television system shall carry local commercial broadcast television stations in accordance with the following provisions:

* * * * *

4. Revise §76.57(e) to read as follows:

§76.57 Channel positioning.

* * * * *

(e) At the time a local commercial station elects must-carry status pursuant to §76.64, such station shall notify the cable system of its choice of channel position as specified in paragraphs (a), (b), and (d) of this section. A qualified NCE station shall notify the cable system of its choice of channel position when it requests carriage.

* * * * *

5. Revise §76.64(a) to read as follows
§ 76.64 Retransmission consent.
(a) No multichannel video programming distributor shall retransmit the signal of any commercial broadcasting station without the express authority of the originating station, except as provided in paragraph (b) of this section.

6. Amend § 76.105 by revising the introductory text to paragraph (b) to read as follows:

§ 76.105 Notifications.

(b): Broadcasters entering into contracts which contain syndicated exclusivity protection shall notify affected cable systems within sixty calendar days of the signing of such a contract. A broadcaster shall be entitled to exclusivity protection beginning on the later of:

§ 76.309 Customer service obligations.

7. Amend § 76.309 by revising the introductory text to paragraph (c) to read as follows:

§ 76.309 Cable operators are subject to the following customer service standards:

§ 76.601 Performance tests.

(b) The operator of each cable television system that operates NTSC or similar channels shall conduct performance tests of the analog channels on that system at least twice each calendar year (at intervals not to exceed seven months), unless otherwise noted below. The performance tests shall be directed at determining the extent to which the system complies with all the technical standards set forth in § 76.605 and shall be as follows:

§ 76.605 Technical standards.

(a) The following requirements apply to the performance of a cable television system as measured at the input to any terminal device with a matched impedance at the termination point or at the output of the modulating or processing equipment (generally the headend) of the cable television system or otherwise noted here or in ANSI/SCTE 40 2016. The requirements of paragraph (b) of this section are applicable to each NTSC or similar video downstream cable television channel in the system. Each cable system that uses QAM modulation to transport video programming shall adhere to ANSI/SCTE 40 2016 (incorporated by reference, see § 76.602). Cable television systems utilizing other technologies to distribute programming must respond to consumer complaints under paragraph (d) of this section.

(b) For each NTSC or similar video downstream cable television channel in the system:

(i) The operator of each cable television system that operates NTSC or similar channels shall conduct triennial proof-of-performance tests of its system to determine the extent to which the system complies with the technical standards set forth in § 76.605(b)(11).
part 73 of this chapter; and cable television systems shall transmit signals to subscriber premises equipment on frequencies in accordance with the channel allocation plan set forth in CTA–542–D (incorporated by reference, see §76.602).

(2) The aural center frequency of the aural carrier must be 4.5 MHz ±5 kHz above the frequency of the visual carrier at the output of the modulating or processing equipment of a cable television system, and at the subscriber terminal.

(3) The visual signal level, across a terminating impedance which correctly matches the internal impedance of the cable system as viewed from the subscriber terminal, shall not be less than 1 millivolt across an internal impedance of 75 ohms (0 dBmV). Additionally, as measured at the end of a 30 meter (100 foot) cable drop that is connected to the subscriber tap, it shall not be less than 1.41 millivolts across an internal impedance of 75 ohms (+3 dBmV). (At other impedance values, the minimum visual signal level, as viewed from the subscriber terminal, shall be the square root of 0.0133 (Z) millivolts and, as measured at the end of a 30 meter (100 foot) cable drop that is connected to the subscriber tap, shall be 2 times the square root of 0.00662(Z) millivolts, where Z is the appropriate impedance value.)

(4) The visual signal level on each channel, as measured at the end of a 30 meter cable drop that is connected to the subscriber tap, shall not vary more than 8 decibels within any six-month interval, which must include four tests performed in six-hour increments during a 24-hour period in July or August and during a 24-hour period in January or February, and shall be maintained within:

(i) 3 decibels (dB) of the visual signal level of any visual carrier within a 6 MHz nominal frequency separation;

(ii) 10 dB of the visual signal level on any other channel on a cable television system of up to 300 MHz of cable distribution system upper frequency limit, with a 1 dB increase for each additional 100 MHz of cable distribution system upper frequency limit (e.g., 11 dB for a system at 301–400 MHz; 12 dB for a system at 401–500 MHz, etc.);

(iii) A maximum level such that signal degradation due to overload in the subscriber’s receiver or terminal does not occur.

(5) The rms voltage of the aural signal shall be maintained between 10 and 17 decibels below the associated visual signal level. This requirement must be met both at the subscriber terminal and at the output of the modulating and processing equipment (generally the headend). For subscriber terminals that use equipment which modulate and remodulate the signal (e.g., baseband converters), the rms voltage of the aural signal shall be maintained between 6.5 and 17 decibels below the associated visual signal level at the subscriber terminal.

(6) The amplitude characteristic shall be within a range of ±2 decibels from 0.75 MHz to 5.0 MHz above the lower boundary frequency of the cable television channel, referenced to the average of the highest and lowest amplitudes within these frequency boundaries. The amplitude characteristic shall be measured at the subscriber terminal.

(7) The ratio of RF visual signal level to system noise shall not be less than 43 decibels. For class I cable television channels, the requirements of this section are applicable only to:

(i) Each signal which is delivered by a cable television system to subscribers within the predicted Grade B or noise-limited service contour, as appropriate, for that signal;

(ii) Each signal which is first picked up within its predicted Grade B or noise-limited service contour, as appropriate;

(iii) Each signal that is first received by the cable television system by direct video feed from a TV broadcast station, a low power TV station, or a TV translator station.

(8) The ratio of visual signal level to the rms amplitude of any coherent disturbances such as intermodulation products, second and third order distortions or discrete-frequency interfering signals not operating on proper offset assignments shall be as follows:

(i) The ratio of visual signal level to coherent disturbances shall not be less than 51 decibels for noncoherent channel cable television systems, when measured with modulated carriers and time averaged; and

(ii) The ratio of visual signal level to coherent disturbances which are frequency-coincident with the visual carrier shall not be less than 47 decibels for coherent channel cable systems, when measured with modulated carriers and time averaged.

(9) The terminal isolation provided to each subscriber terminal:

(i) Shall not be less than 18 decibels. In lieu of periodic testing, the cable operator may use specifications provided by the manufacturer for the terminal isolation equipment to meet this standard; and

(ii) Shall be sufficient to prevent reflections caused by open-circuited or short-circuited subscriber terminals from producing visible picture impairments at any other subscriber terminal.

(10) The peak-to-peak variation in visual signal level caused by undesired low frequency disturbances (hum or repetitive transients) generated within the system, or by inadequate low frequency response, shall not exceed 3 percent of the visual signal level. Measurements made on a single channel using a single unmodulated carrier may be used to demonstrate compliance with this parameter at each test location.

(11) The following requirements apply to the performance of the cable television system as measured at the output of the modulating or processing equipment (generally the headend) of the system:

(i) The chrominance-luminance delay inequality (or chroma delay), which is the change in delay time of the chrominance component of the signal relative to the luminance component, shall be within 170 nanoseconds.

(ii) The differential gain for the color subcarrier of the television signal, which is measured as the difference in amplitude between the largest and smallest segments of the chrominance signal (divided by the largest and expressed in percent), shall not exceed ±20%.

(iii) The differential phase for the color subcarrier of the television signal which is measured as the largest phase difference in degrees between each segment of the chrominance signal and reference segment (the segment at the blanking level of 0 IRE), shall not exceed ±10 degrees.

(c) As an exception to the general provision requiring measurements to be made at subscriber terminals, and without regard to the type of signals carried by the cable television system, signal leakage from a cable television system shall be measured in accordance with the procedures outlined in §76.609(b) and shall be limited as shown in table 1 to paragraph (c):
§76.606 Closed captioning.
(a) The operator of each cable television system shall not take any action to remove or alter closed captioning data contained on line 21 of the vertical blanking interval.
(b) The operator of each cable television system shall deliver intact closed captioning data contained on line 21 of the vertical blanking interval, as it arrives at the headend or from another origination source, to subscriber terminals and (when so delivered to the cable system) in a format that can be recovered and displayed by decoders meeting §79.101 of this chapter.

§76.610 Operation in the frequency bands 108–137 MHz and 225–400 MHz—scope of application.

The provisions of §§76.605(d), 76.611, 76.612, 76.613, 76.614, 76.616, 76.617, 76.1803 and 76.1804 are applicable to all MVPDs (cable and non-cable) transmitting analog carriers or other signal components at an average power level equal to or greater than 100 microwatts across a 25 kHz bandwidth in any 160 microsecond period or transmitting digital carriers or other signal components at an average power level of 75.85 microwatts across a 25 kHz bandwidth in any 160 microsecond period or transmitting digital carriers or other signal components carried at an average power level equal to or greater than 50 μV/m measured 3 meters from the leak i and n is the number of leaks found of field strength equal to or greater than 50 μV/m measured pursuant to §76.609(b).

The sum is carried over all leaks i detected in the cable examined; or

(2) Prior to carriage of signals in the aeronautical radio bands and at least once each calendar year, with no more than 12 months between successive tests thereafter, the cable operator demonstrates by measurement in the airspace that at no point does the field strength generated by the cable system exceed 10 microvolts per meter (μV/m) RMS at an altitude of 450 meters above the average terrain of the cable system. The measurement system (including the receiving antenna) shall be calibrated against a known field of 10 μV/m RMS produced by a well characterized antenna consisting of orthogonal resonant dipoles, both parallel to and one quarter wavelength above the ground plane of a diameter of two meters or more at ground level. The dipoles shall have centers collocated and be excited 90 degrees apart. The half-power bandwidth of the detector shall be 25 kHz. If an aeronautical receiver is used for this purpose it shall meet the standards of the Radio Technical Commission for Aeronautics (RTCA) for aeronautical communications receivers. The aircraft antenna shall be horizontally polarized.
Calibration shall be made in the community unit or, if more than one, in any of the community units of the physical system within a reasonable time period to performing the measurements. If data is recorded digitally the 90th percentile level of points recorded over the cable system shall not exceed 10 μV/m RMS as indicated above; if analog recordings is used the peak values of the curves, when smoothed according to good engineering practices, shall not exceed 10 μV/m RMS.

(b) In paragraphs (a)(1) and (2) of this section the unmodulated test signal used for analog leakage measurements on the cable plant shall—

(1) Be within the VHF aeronautical band 108–137 MHz or any other frequency for which the results can be correlated to the VHF aeronautical band; and

(2) Have an average power level equal to the greater of:

(i) The peak envelope power level of the strongest NTSC or similar analog cable television signal on the system, or

(ii) 1.2 dB greater than the average power level of the strongest QAM or similar digital cable television signal on the system.

(c) In paragraphs (a)(1) and (2) of this section, if a modulated test signal is used for analog leakage measurements, the test signal and detector technique must, when considered together, yield the same result as though an unmodulated test signal were used in conjunction with a detection technique which would yield the RMS value of said unmodulated carrier.

(d) If a sampling of at least 75% of the cable strand (and including any portions of the cable system which are known to have or can reasonably be expected to have less leakage integrity than the average of the system) as described in paragraph (a)(1) of this section cannot be obtained by the cable operator or is otherwise not reasonably feasible, the cable operator shall perform the airspace measurements described in paragraph (a)(2) of this section.

(e) Prior to providing service to any subscriber on a new section of cable plant, the operator shall show compliance with either:

(1) The basic signal leakage criteria in accordance with paragraphs (a)(1) or (2) of this section for the entire plant in operation or

(2) A showing shall be made indicating that no individual leak in the new section of the plant exceeds 20 μV/m at 3 meters in accordance with § 76.609 for analog signals or 17.4 μV/m at 3 meters for digital signals.

(f) Notwithstanding paragraph (a) of this section, a cable operator shall be permitted to operate on any frequency which is offset pursuant to § 76.612 in the frequency band 108–137 MHz for the purpose of demonstrating compliance with the cable television basic signal leakage performance criteria.

14. Revise the introductory text to § 76.612 to read as follows:

§ 76.612 Cable television frequency separation standards.

All cable television systems which operate analog NTSC or similar channels in the frequency bands 108–137 MHz and 225–400 MHz shall comply with the following frequency separation standards for each NTSC or similar channel:

* * * * *

15. Revise § 76.640(b)(1)(ii) to read as follows:

§ 76.640 Support for unidirectional digital cable products on digital cable systems.

(a) Sections 76.92 through 76.95 shall apply to open video systems in accordance with the provisions contained in this section.

* * * * *

(b) * * *

Annex ANSI/SCTE 40 2016 (incorporated by reference, see § 76.602), provided however that the “transit delay for most distant customer” requirement in Table 4.3 is not mandatory.

* * * * *

16. Revise § 76.1508(a) to read as follows:

§ 76.1508 Network non-duplication.

(a) Sections 76.92 through 76.95 shall apply to open video systems in accordance with the provisions contained in this section.

* * * * *

17. Revise § 76.1509 to read as follows:

§ 76.1509 Syndicated program exclusivity.

(a) Sections 76.101 through 76.110 shall apply to open video systems in accordance with the provisions contained in this section.

(b) Any provision of § 76.101 that refers to a “cable community unit” shall apply to an open video system.

(c) Any provision of § 76.105 that refers to a “cable system operator” or “cable television system operator” shall apply to an open video system operator. Any provision of § 76.105 that refers to a “cable system” or “cable television system” shall apply to an open video system operator. Open video system operators shall make all notifications and information regarding exercise of syndicated program exclusivity rights immediately available to all appropriate video programming provider on the system.

18. Revise § 76.1601 to read as follows:

§ 76.1601 Deletion or repositioning of broadcast signals.

A cable operator shall provide written notice to any open video television...
station at least 30 days prior to either deleting from carriage or repositioning that station. Such notification shall also be provided to subscribers of the cable system.

■ 20. Amend § 76.1602 by revising the introductory text to paragraph (b) to read as follows:

§ 76.1602 Customer service—general information.

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| *(a)* | The cable operator shall provide written information on each of the following areas at the time of installation of service, at least annually to all subscribers, and at any time upon request: | *(b)* The cable operator shall provide written information on each of the following areas at the time of installation of service, at least annually to all subscribers, and at any time upon request:

§ 76.1610 [Amended]

■ 21. Amend § 76.1610 by removing paragraphs (f) and (g).

■ 22. Revise § 76.1701(d) to read as follows:

§ 76.1701 Political file.

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| *(d)* Where origination cablecasting material is a political matter or matter involving the discussion of a controversial issue of public importance and a corporation, committee, association or other unincorporated group, or other entity is paying for or furnishing the matter, the system operator shall, in addition to making the announcement required by § 76.1615, require that a list of the chief executive officers or members of the executive committee or of the board of directors of the corporation, committee, association or other unincorporated group, or other entity shall be made available for public inspection at the local office of the system. Such lists shall be kept and made available for two years.

■ 23. Revise the introductory text to § 76.1804 to read as follows:

§ 76.1804 Aeronautical frequencies notification: leakage monitoring (CLI).

An MVPD shall notify the Commission before transmitting any digital signal with average power exceeding 10<sup>−5</sup> watts across a 30 kHz bandwidth in a 2.5 millisecond time period, or for other signal types, any carrier of other signal component with an average power level across a 25 kHz bandwidth in any 160 microsecond time period equal to or greater than 10<sup>−4</sup> watts at any point in the cable distribution system on any new frequency or frequencies in the aeronautical radio frequency bands (108–137 MHz, 225–400 MHz). The notification shall be made on FCC Form 321. Such notification shall include:

* * * * *

Federal Communications Commission.

Marlene H. Dortch, Secretary.

[FR Doc. 2018–03547 Filed 2–21–18; 8:45 am]

BILLING CODE 6712–01–P

GENERAL SERVICES ADMINISTRATION

48 CFR Parts 502, 512, 513, 532, and 552

[GSAR Change 83; GSAR Case 2015–G512; Docket No. 2016–0010; Sequence No. 2]

RIN 3090–AJ67

General Services Administration Acquisition Regulation; Unenforceable Commercial Supplier Agreement Terms

AGENCY: Office of Acquisition Policy, General Services Administration (GSA).

ACTION: Final rule.

SUMMARY: GSA is amending the General Services Administration Acquisition Regulation (GSAR) to address common commercial supplier agreement terms that are inconsistent with or create ambiguity with Federal Law.


FOR FURTHER INFORMATION CONTACT: Ms. Janet Fry, Senior Policy Advisor, GSA Acquisition Policy Division, at 703–605–3167 or janet.fry@gsa.gov. For information pertaining to status or publication schedules, contact the Regulatory Secretariat at 202–501–4755. Please cite GSAR Case 2015–G512.

SUPPLEMENTARY INFORMATION:

I. Background

GSA published a proposed rule in the Federal Register at 81 FR 34302 on May 31, 2016, to amend the GSAR and address common commercial supplier agreement terms that are inconsistent with or create ambiguity with Federal Law.

Standard commercial supplier agreements contain terms and conditions that make sense when the purchaser is a private party but are inappropriate when the purchaser is the Federal Government. Discrepancies between commercial supplier agreements and Federal law or the Government’s needs create recurring points of inconsistency. As a result, industry and Government representatives must spend significant time and resources negotiating and tailoring commercial supplier agreements to comply with Federal law and to ensure both parties have agreement on the contract terms. Explicitly addressing common unenforceable terms eliminates the need for negotiation on these identified terms.

This approach will: (1) Decrease proposal costs associated with negotiating the identified unenforceable commercial supplier agreement terms; (2) facilitate faster procurement and contract lead times, therefore decreasing the time it takes for contractors to make a return on their investment; (3) reduce administrative costs for companies that maintain alternate Federally compliant commercial supplier agreements; and (4) for small business concerns, level the playing field with larger competitors since negotiations will only be required if the commercial supplier agreements contain objectionable clauses outside of those already identified in the GSAR clause. Lastly, this approach ensures consistent application and understanding of these unenforceable terms, potentially reducing unnecessary legal costs.

II. Discussion of Proposed Rule

Two respondents submitted comments on the proposed rule. The General Services Administration has reviewed the comments in the development of the final rule. A discussion of the comments and the changes made to the rule as a result of those comments are provided as follows:

A. Summary of Significant Changes

This final rule makes the following significant changes from the proposed rule:

• GSAR 552.212–4(e)—Reverts the order of precedence to move “Addenda to the solicitation or contract, including any license agreements for computer software” back to number 4, and “Solicitation provisions of the solicitation” and “Other paragraphs of the clause” back to number 5 and 6, respectively. Additionally, language was added to clarify the Commercial Supplier Agreements—Unenforceable Clauses provision takes precedence over the commercial supplier agreement terms and conditions.

• GSAR 552.212–4(w)(1)(vi)—Deletes the requirement for providing full text terms with the offer, adds a definition of a material change, and adds clarification on when a commercial supplier agreement must be bilaterally modified in the contract.