

CATV License Application Analysis
DRAFT as of 11/30/2016

Form 100 Item #	Description	Charter Proposal	Comcast Proposal
	GENERAL LICENSE INFORMATION		
4	# of yrs. for initial license requested	15 years	15 years
5	Proposed start date of initial license	Effective date license executed by both parties. NOTE, Charter's application contingent upon being awarded and accepting grant funding from MBI.	Agreement among Comcast, MassTech & Town, as to cost-sharing arrangement for construction of cable system; AND execution of final Grant Disbursement Agreement between Comcast and MassTech
6	If initial license – state if hold licenses in other MA municipalities	68 active licenses in MA	241 active license in MA
7	Been a party to any fully adjudicated license-related legal action	No	No
8	State amount of insurance propose to carry	<u>Worker's Comp Commercial Gen. Liability</u> = \$1,000,000 per occurrence Combined Single Liability, \$2,000,000 General Aggregate (Statutory Limits) <u>Auto Liability</u> including coverage all owned, non-owned hired auto Umbrella Liability = \$1,000,000 per occurrence C.S.L. <u>Umbrella Liability</u> \$1,000,000 C.S.L.	<u>Worker's Comp</u> = Statutory Limits <u>Auto Liability</u> = \$1,000,000 (combined single limit for bodily injury and consequent death and property damage per occurrence) <u>Umbrella Liability</u> = \$5,000,000 <u>Bodily Injury or Property Damage</u> = \$1,000,000 per occurrence
9	Proposed bonding M.G.L. c. 166A, § 5(k) (before commencing construction, submit to IA a bond, with corporate surety – completion of installation, operation of	\$10,000 (standard Bond in Charter's existing MA licenses.)	\$25,000 throughout the term of the license

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	system, indemnity of the town, etc.)		
10	Proposed subscriber privacy policy complies with federal and state law and regulation.	Yes	Yes
11	Describe proposed procedures for handling customer service inquiries during term of the license, including but not limited to subscriber complaints	Exhibit C Customer calls cable system, correct problem over phone or schedule repair call and repair service technician corrects problem. If customer dissatisfied calls/writes system G.M., complaint logged and work with customer to fullest extent possible to resolve. Nothing regarding billings issues.	Exhibit B Complaint regarding service or bill, call local customer service number, available 24/7. Can visit local business office or write. Will promptly try to resolve, if unable will contact and state why. Still dissatisfied contact local franchising authority.
	RATES AND SERVICES		
12	List broadcast television stations applicant proposes to carry	WASA; WBIN; WPX; WBZ; WCVB; WENH; WFXT (2); WGBX (4); WHDH; WLVI; WMFP; WMUR; WNEU (2); WSBK; WUNI; WUTF; WUTF 2; WYDN;	WGBH; WBZ; WCVB; WHDG; WWOP; WSBE; WLVI; WFXT; WSBX; WPX; WGBX; WUNI; WBIN; WNEU; WMFP; WUYF; WYDN; WFXZ;
13	List those channels that are current must carry and those that are currently carried pursuant to retransmission consent.	All broadcast stations now require Retransmission Consent agreements, except for the following which are Must Carry: WGBH-PBS; WYDN-Daystar; WPX-ION; WGBX-PBS; WMFP-IND and WBIN-IND.	The Town of Princeton resides within the Boston Designated Market Area (DMA). The following channels are the current must carry channels with the Boston DMA: WGBH-PBS; WBZ; WCVB; WHDH; WWDP; WLVI; WFXT; WSBK; WPX; WGBX; WUNI; WNEU; WMFP; WUTF;
14	State whether applicant proposes to offer non-automated local origination programming.	Yes, below is listing of non-automated local origination programming that is cablecast on Charter TV3. News; Sports; News/Talk; Public Affairs.	Applicant does not propose to offer non-automated origination programming.
15	State whether applicant plans to offer public, educational and governmental access channel(s).	Charter provides up to three digital channels for local Public, Education and Government (PEG) access. Funding for PEG, if requested by Issuing Authority, is negotiable pursuant to federal law. channel	Applicant does not propose to offer Public, Education and Government (PEG) access channels.

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16	If applicant plans to offer or maintain an institutional network (I-Net).	N/A	Applicant does not propose to offer or maintain an institutional network (I-Net) in the Town of Princeton.																				
17	Provide a complete listing of all proposed subscriber fees.	<p>See Full Rate Card for all fees for TV</p> <table border="1" data-bbox="537 383 1182 659"> <thead> <tr> <th>Basic Descriptions</th> <th>Charter Proposal</th> </tr> </thead> <tbody> <tr> <td>Basic TV Service per month</td> <td>\$15.99</td> </tr> <tr> <td>Basic Installation</td> <td>\$49.99</td> </tr> <tr> <td>Equipment per month (Digital Receiver and Remote)</td> <td>\$6.99</td> </tr> <tr> <td>DVR Service per month</td> <td>\$11.99</td> </tr> </tbody> </table>	Basic Descriptions	Charter Proposal	Basic TV Service per month	\$15.99	Basic Installation	\$49.99	Equipment per month (Digital Receiver and Remote)	\$6.99	DVR Service per month	\$11.99	<p>See Full Rate Card for all fees for TV</p> <table border="1" data-bbox="1352 383 2024 631"> <thead> <tr> <th>Basic Descriptions</th> <th>Comcast Proposal</th> </tr> </thead> <tbody> <tr> <td>Basic TV Service per month</td> <td>\$19.50</td> </tr> <tr> <td>Basic Installation</td> <td>\$30.00</td> </tr> <tr> <td>Equipment per month (Digital Receiver and Remote)</td> <td>\$3.18</td> </tr> <tr> <td>DVR Service per month</td> <td>\$10.00</td> </tr> </tbody> </table>	Basic Descriptions	Comcast Proposal	Basic TV Service per month	\$19.50	Basic Installation	\$30.00	Equipment per month (Digital Receiver and Remote)	\$3.18	DVR Service per month	\$10.00
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18	State where applicant proposes to offer any additional services in the municipality that are not subject to regulations as a cable service, and if so, provide description.	<p>In addition to Spectrum advanced digital video services, Charter will provide the following services not subject to regulation under the license.</p> <ul style="list-style-type: none"> - Internet Services (Spectrum Internet) - Voice Services (Spectrum Voice) - Commercial Services (Spectrum Business) <p>See Rate Card for a description of each service.</p> <p>Charter is about to launch a new Spectrum Internet Assist program to provide discounted high-speed Internet service to low income residents. The 30 Mps service will be available to families with school-age children eligible for the federal free and reduced lunch program and seniors 65 and older who participate in the Supplemental Security Income (SSI) program. The cost will be \$14.99 and there will be no additional fee for a standard cable modem.</p>	<p>Applicant proposes to offer the following services that are not subject to regulation as a Cable Service.</p> <ul style="list-style-type: none"> - Internet Service (Xfinity Internet) - Digital Voice Service (Xfinity Voice) - Home Security Service (Xfinity Home) <p>See Rate Card for a description of each service.</p>																				
	TECHNICAL INFORMATION																						
19	Princeton included in regional cable system?	Yes, regional cable system Head End is located in Worcester (Exhibit F)	The proposed service area would be part of a regional cable system. Communities served by this proposed regional cable																				

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			system are: Bolton, Clinton, Lancaster, Leominster, Lunenburg, Shirley and Sterling. The proposed cable system would be served by a master headend located in Maynard, MA.
20	Parts of town covered / excluded	Charter intends to serve all existing homes on public ways within the municipal boundaries of the town, subject to Section 21 (below).	Subject to execution of the Grant Disbursement Agreement and subject to the terms of the Grant Disbursement Agreement, Applicant proposes to construct its cable system along the public right of way in the Town of Princeton and make all dwelling units in the town serviceable, as defined in the Grant Disbursement Agreement.
21	Problem areas for service	There may be limited areas within the town that cannot be reached without crossing another town boundary, requiring construction and use of the public right of way in a municipality where Charter does not hold a cable license. There may also be isolated homes, including but not limited to those on roads that pass through the state reservation, forest or wildlife sanctuaries and management areas requiring extraordinary construction costs that are not financially viable to serve, <i>which can be addressed in the Cable License negotiations.</i>	From an engineering perspective, Applicant does not foresee any problems in extending service to all parts of the proposed service area (see section 20 above).
22	Construction time frames	Charter will begin the planning and design of system to serve the town of Princeton immediately upon receipt of a fully executed cable television license from the Issuing Authority and a fully executed Agreement with the Mass Technology Collaborative/MBI to provide Charter with at least \$910,000 from the funds MBI has specifically set aside for broadband deployment in the town of Princeton. Charter believes there may be additional professional service fees of roughly \$640,000 available from Mass Technology Collaborative/MBI and intends to seek those funds, but its application is not specifically contingent on receiving those additional monies. Charter proposes to complete network construction in the town within 12 months of the completion of make-ready work and receipt of all pole licenses. Customers can be activated on a rolling basis as construction proceeds toward completion.	The Applicant proposes to begin engineering of the cable system upon execution of the Grant Disbursement Agreement between MassTech and Comcast. Applicant will abide by the construction timetable provided in the Grant Disbursement Agreement. The Applicant anticipates and proposes that completion of construction will not exceed 18 months from commencement of engineering upon execution of the Grant Disbursement Agreement.

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<p>23</p>	<p>Technical description of the system, including a strand or street map showing the extent of cable plant in the municipality.</p>	<p>See Exhibit G for full detail, highlights include: Charter's last-mile network utilizes a traditional hybrid fiber coaxial cable (or "HFC") architecture, which combines the use of fiber optic cable with coaxial cable. In our Massachusetts system, we deliver our signals via fiber optic cable from the headend to a group of nodes, and use coaxial cable to deliver the signal from individual nodes to the homes served by that node. For our fiber Internet, Ethernet, carrier wholesale, SIP and PRI commercial customers, fiber optic cable is extended from the individual nodes all the way to the customer's site. On average, our system design enables up to 400 homes passed to be served by a single node and provides for six strands of fiber to each node, with two strands activated and four strands reserved for spares and future services. We believe that this hybrid network design provides high capacity and excellent signal quality. The design also provides two-way signal capacity for the addition of further interactive services. HFC architecture benefits include: bandwidth capacity to enable traditional and two-way video and broadband services; dedicated bandwidth for two-way services, which avoids return signal interference problems that can occur with two-way communication capability; and signal quality and high service reliability.</p>	<p>Comcast's cable distribution system uses a hybrid fiber-optic and coaxial cable network that they believe is sufficiently flexible and scalable to support future technology requirements. This network provides the two-way transmissions that are essential to providing interactive video services, such as On Demand, and high-speed Internet and voice services. We are also leveraging our network to develop and deliver innovative services to our customers efficiently and in an accelerated fashion.</p>
<p>24</p>	<p>Describe the equipment applicant proposes to offer or continue to offer at the subscriber terminal</p>	<p>See Exhibit G-1 for full detail, this section discusses: Video, Voice and Commercial Services. Internet is more fully summarized here: "All of our Massachusetts customers have available DOCSIS 3.0 wideband technology, allowing us to offer our residential customers multiple tiers of Internet services with download speeds of up to 100 Mbps, and up to 120 Mbps in certain markets. Since going all-digital, our base Internet download speed offering is 60 Mbps, and 100 Mbps in certain markets."</p>	<p>Applicant does make available, for a monthly charge, devices specific to the service tier requested by a subscriber, including digital converters, digital video recorders and remote controls.</p>
<p>25</p>	<p>Safety measures for the cable system comply</p>	<p>Yes</p>	<p>Yes</p>

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	with federal and state law and regulations.		
26	Emergency Alert System (EAS) complies with federal and state law and regulations.	Yes	Yes