

Attorney Docket No. 10,693,700
IPR of U.S. Patent No. 19688-0196IP2

DECLARATION OF JUNE ANN MUNFORD

1. My name is June Ann Munford. I am over the age of 18, have personal knowledge of the facts set forth herein, and am competent to testify to the same.
2. I earned a Master of Library and Information Science (MLIS) from the University of Wisconsin-Milwaukee in 2009. I have over ten years of experience in the library/information science field. Beginning in 2004, I have served in various positions in the public library sector including Assistant Librarian, Youth Services Librarian and Library Director. I have attached my Curriculum Vitae as Appendix CV.
3. During my career in the library profession, I have been responsible for materials acquisition for multiple libraries. In that position, I have cataloged, purchased and processed incoming library works. That includes purchasing materials directly from vendors, recording publishing data from the material in question, creating detailed material records for library catalogs and physically preparing that material for circulation. In addition to my experience in acquisitions, I was also responsible for analyzing large collections of library materials, tailoring library records for optimal catalog

search performance and creating lending agreements between libraries during my time as a Library Director.

4. I am familiar with the Internet Archive, a digital library formally certified by the State of California as a public library. Among other services that the Internet Archive makes available to the general public is the Wayback Machine, an online archive. The Internet Archive's Wayback Machine service archives webpages as of a certain capture date to track changes in the web over time. The Internet Archive has been in operation as a nonprofit library since 1996 and has hosted the Wayback Machine service since its inception in 2001. During my time as a librarian, I frequently used the Internet Archive's Wayback Machine for research and instruction purposes. This includes teaching instructional classes on using the Wayback Machine to library patrons and using the Wayback Machine to research reference inquiries that require hard-to-find online resources. I consider the Internet Archive's recordskeeping to be as rigorous and detailed as other formal library recordskeeping practices such as MARC records, OCLC records and Dublin Core.

5. I have reviewed Exhibit LGE1022, a document entitled *ATSC Recommended Practice: Guidelines for the Physical Layer Protocol (A/327), 2 October 2018* by the Advanced Television Systems Committee.

6. Attached hereto as Appendix 327a is a screen capture of the Internet Archive Wayback Machine entry for <https://www.atsc.org/wp-content/uploads/2018/10/A327-2018-Physical-Layer-RP.pdf>. I secured these screen captures myself from https://web.archive.org/web/202200000000000*/https://www.atsc.org/wp-content/uploads/2018/10/A327-2018-Physical-Layer-RP.pdf.

7. Attached hereto as Appendix 327b is a copy of a file named “A327-2018-Physical-Layer-RP.pdf” containing *ATSC Recommended Practice: Guidelines for the Physical Layer Protocol (A/327), 2 October 2018*. I secured this file from <https://web.archive.org/web/20220126142234/https://www.atsc.org/wp-content/uploads/2018/10/A327-2018-Physical-Layer-RP.pdf>. The PDF file contained within Appendix 327b is presented to the viewer upon visiting the website record captured in Appendix 327a. In comparing Appendix 327b to Exhibit LGE1022, it is my determination that Exhibit LGE1022 is a true and

correct copy of *ATSC Recommended Practice: Guidelines for the Physical Layer Protocol (A/327)*, 2 October 2018.

8. Attached hereto as Appendix 327c is a screen capture of the Internet Archive Wayback Machine entry for <https://www.atsc.org/standards/atsc-3-0-recommended-practices/>. I secured these screen captures myself from <https://web.archive.org/web/20190326162834/https://www.atsc.org/standards/atsc-3-0-recommended-practices/>. On this web capture of the ATSC website, there is an entry for the 327:2018 Standard presented on page 4 of the document. The ‘download PDF file’ button on this record forwards the user to the PDF copy presented in Appendix 327a and 327b.

9. Attached hereto as Appendix 327d is a screen capture of the IEEE Xplore entry for “ATSC 3.0 Standards Usher in Next Gen TV Era” by Madeleine Noland as published in *SMPTE Motion Imaging Journal* June 2019. I secured these screen captures myself from <https://ieeexplore.ieee.org/document/8742723>. On page 3 of this screen capture, the IEEE record indicates *ATSC Recommended Practice: Guidelines for the Physical Layer Protocol (A/327)*, 2 October 2018 was cited in “ATSC 3.0 Standards Usher in Next Gen TV Era”.

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