

# CALVERT COUNTY, MARYLAND

## CERTIFICATE OF RADIO COVERAGE COMPLIANCE

PROJECT NAME: \_\_\_\_\_

PROJECT ADDRESS: \_\_\_\_\_

DESIGN PROFESSIONAL ENGINEER OF RECORD: \_\_\_\_\_

TEST DATE AND TIME: \_\_\_\_\_

(Testing for compliance and certification shall be performed after construction and interior finishing work is complete, and between May 1 and October 1, to ensure full foliage conditions)

I have responsible charge and I certify that the occupancy identified above was tested for Calvert County public safety radio system radio coverage levels and meets the requirements set forth in Table 1 below without the use of a Two-Way Radio Communications Enhancement System. I further certify that the building was tested in accordance with the provisions set forth in Annex A.11.3.9 of NFPA 1221, *Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems*, (National Fire Protection Association 2016). To the best of my knowledge, information and belief, the radio coverage levels for this occupancy meet or exceed those required by Calvert County, Maryland.

Professional Certification: I hereby certify that these documents were prepared or approved by me, and I am a duly licensed Professional Engineer under the laws of the State of Maryland,

License Number \_\_\_\_\_, Expiration Date: \_\_\_\_\_.

Respectfully submitted,

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Signature and Seal of Design Professional Engineer of Record

Date

Table 1 – Calvert County Radio Coverage Requirements

<p><b><u>Inbound signal strength</u></b></p>	<p><u>A minimum inbound signal strength of - 90 dBm shall be provided throughout the coverage area for the Calvert County 800 MHz system and the State of Maryland 700 MHz system.</u></p>
<p><b><u>Outbound signal strength:</u></b></p>	<p><u>A minimum outbound signal strength of - 90 dBm shall be provided throughout the coverage area for the Calvert County 800 MHz system and the State of Maryland 700 MHz system.</u></p>
<p><b><u>Voice audio quality</u></b></p>	<p><u>A minimum voice audio quality of DAQ 3.4 shall be provided throughout the coverage area for the Calvert County 800 MHz system and the State of Maryland 700 MHz system. DAQ 3.4 is defined as “Speech understandable without repetition, some noise/distortion present”</u></p>
<p><b><u>Coverage area reliability in critical areas</u></b></p>	<p><u>Fire command centers, fire alarm control panel locations, fire pump rooms, exit stairs, exit passageways, elevators, elevator lobbies, standpipe cabinets, sprinkler valve locations, areas of refuge, and other areas deemed critical by the County shall be provided with 99% floor area reliability coverage for the Calvert County 800 MHz system and the State of Maryland 700 MHz system.</u></p>
<p><b><u>Coverage area reliability in general building areas</u></b></p>	<p><u>All other interior levels and areas of the building not defined as critical shall have 90% floor area reliability coverage for the Calvert County 800 MHz system and the State of Maryland 700 MHz system.</u></p>