



Seattle Fire Marshal's Office
 220 3rd Avenue South, 2nd Floor
 Seattle, WA 98104
 (206) 386-1443
sfd_fmo_engineering@seattle.gov

RADIO COVERAGE SIGNAL STRENGTH ASSESSMENT FORM

SFC 510.4.1

Assessment of Radio Coverage Signal Strength without Use of BDA/DAS (SFC 510.4.1)

<input type="checkbox"/> Coverage meets code requirements throughout building	<input type="checkbox"/> Coverage does not meet code requirements in some or all of the building
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Purpose of Form: Use this form to document that a building (or portions of a building) have adequate signal strength for emergency responder radios and therefore do not require radio amplification systems such as Bi-Directional Antennas (BDAs) or Distributed Antenna Systems (DAS). When this form is used in conjunction with a new construction projects, shell and core construction shall be completed prior to radio signal testing and assumptions shall be provided for additional signal limitations from anticipated tenant improvements.

SECTION 1 BUILDING INFORMATION

Building Name: _____

Building Address: _____

SECTION 2 TESTING COMPANY, TECHNICIAN AND EQUIPMENT

Section 2.1 Testing Company Information

Company Name: _____ Mailing Address: _____	Contact Name: _____ Phone: _____ Email: _____
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Section 2.2 Technician Information

Technician Name: _____	Phone: _____
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Technician FCC Certification/GROL#: _____

Technician performing testing has received manufacturer training or other equivalent: Yes No

Specify manufacturer training received and year: _____ 20__

Section 2.3 Testing Equipment Used for Assessment

Spectrum analyzer make/model**: _____

Spectrum analyzer calibration date: _____

Calibration performed by firm (qualified firm name): _____

*** Use of a calibrated spectrum analyzer, with a current calibration, is required for this testing.*

SECTION 3 RADIO COVERAGE ASSESSMENT RESULTS

Date of Assessment: _____

Pass
The entire building in its current configuration provides adequate signal coverage in 90% of all areas of each floor of the building and 99% of the area of critical areas, where coverage requirements are defined in Seattle Fire Code 510.4.1. Yes No

Partial Pass
The following portions of the building in the current configuration provide adequate signal coverage and should not need any additional DAS infrastructure (include descriptors such as directional, floor, wing):

 Yes No

The following portions of the building do not provide adequate signal coverage and will need additional DAS infrastructure to improve signal strength and meet fire code requirements (include descriptors such as directional, floor, wing):

Fail
The building area provides inadequate signal coverage and will need additional DAS infrastructure to improve signal strength and meet fire code requirements. Notes:

 Yes No

SECTION 4 REQUIRED DOCUMENTATION

A copy of the following documents is attached to this report for the fire code official.

4.1 Grid diagram for each floor, showing test signal strengths in each floor, and indicating location of each critical area. Yes No

4.2 Copy of General Radiotelephone Operator’s License for technician listed in section 2.2 above. Yes No

4.3 The form and attachments are stored in the fire command center or building engineer’s office AND submitted by email to the Seattle Fire Department. Yes No

SECTION 5 ATTESTATION

By accepting this statement I, the FCC-licensed technician shown on this form, certify that I have properly assessed radio signal strength following NFPA and SFC standards and have accurately provided results in section 3 above, indicating whether the building or portions of the building have signal strength meeting the requirements in SFC 510.4.1. Yes No

SIGNATURE

Signature of Technician _____ Date _____

INSTRUCTIONS FOR SUBMITTING THIS FORM TO SFD

- 1. A paper copy of this form and the required documentation in section 4 shall be stored at the building and made available to representatives from the Fire Marshal’s Office at the time of inspection.
- 2. Email form to SFD_FMO_engineering@seattle.gov at least 48 hours in advance of your SFD building final inspection to facilitate inspection scheduling and passing result. We recommend emailing forms to SFD as soon as they are available.