FIRE PREVENTION AND
COMMUNITY RISK REDUCTION
102 Remington St
Fort Collins, CO 80524
(970) 416-2891

EMERGENCY RESPONDER COMMUNICATION ENHANCE SYSTEM
PERMIT SUBMITTAL CHECKLIST

Submittal Process: The Following items are required for an ERCES plan review submittal. Failure to provide the following may require a Review Denial or Resubmittal. Not all listed below will be required for every project, please provide all that apply per project. *

Drawings Requirements:
Electronic plans in .pdf format. Please submit files in an unlocked and unsecured state for plan review.
Stamped by NICET Design – In-Building Public Safety Communications (IB-PSC)

CONTRACTOR INFO
- ✓ Design professional declared on plan set
- ✓ Installing contractor and certificates
- ✓ Retransmission Authorization Form shall be attached to permit application

CODE ANALYSIS
- ✓ FCC 47 CFR Part 90.219
- ✓ 2024 International Fire Code (IFC)
- ✓ National Fire Protection Association (NFPA) 1225
- ✓ Written job description-scope of work
- ✓ Type of ERCES system
- ✓ Building Construction Type

PLANS
- ✓ Site plans and map of donor antenna
- ✓ Floor plan and area identification

SYSTEM INFORMATION
- ✓ DAQ Signal source level measurements
- ✓ Device legend
- ✓ Cable legend
- ✓ Donor RF link path profiles, azimuths, and distances
- ✓ Up-link & Down-link budget
- ✓ Donor antenna mounting details and donor antenna cable installation details
- ✓ Grounding and surge suppression – lightning protection
- ✓ Backbone and distribution antenna cable diagrams
- ✓ Device locations on floor plans
- ✓ Pathway survivability design as applicable
- ✓ Primary and backup power distribution design and wiring
- ✓ Monitoring system design including fire alarm control unit interfaces and annunciators
- ✓ Donor/DAS antenna isolation calculations
- ✓ Test grids on floor plans
- ✓ Battery calculations

- ✓ Sequence of operations – matrix format

MATERIAL SUBMITTALS

- ✓ Cut sheets and manufacturer's information provided for all the system components and appliances.
- ✓ Highlight materials used
- ✓ The working plans submittal shall include the manufacturer's installation instructions for any specially listed equipment, including descriptions, applications, and limitations for any cable, amplifiers, antennas, batteries, etc.

*The above list is not intended to be inclusive of all requirements for a new ERCES submittal, but rather a guide to indicate the minimum requirements. Refer to 2024 IFC Section 510 and NFPA 1225 Chapter 18 – In-Building Emergency Responder Communication Enhancement Systems.