

Technical Implementation Guide 1221-16

For

NFPA 1221, Standard on Installation, Maintenance, and Use of Emergency Services
Communications Systems



Date Published: February 2017

Preface

In accordance with established policies and procedures, AFCEC/CXF conducted a comprehensive line item review of NFPA 1221, *Standard on Installation, Maintenance, and Use of Emergency Services Communications Systems* (2016 Edition). This Technical Implementation Guide (TIG) provides clarification and deviation approvals authorized by the Authority Having Jurisdiction, Director of Civil Engineers. Line items not addressed in this TIG are implemented as written. This TIG does not apply for use during contingency, humanitarian relief, or wartime operations. Consult War Mobilizations Plan (WMP) 1, Annex S, for staffing and vehicle requirements.

The left hand column lists the NFPA line items which correspond to a clarification or deviation on the right hand column.

All DET Fire Emergency Services functionals have coordinated on this TIG. Correspondence in this regard is on file at AFCEC/CXF, Tyndall AFB FL.

SCOTT C. KNUPP, CMSgt, USAF Air Force Fire Chief (Interim)

Attachment:

A4C Interim NFPA Standards Implementation Memo



NFPA 1221, 2016 Edition	Air Force Implementation Matrix
2.3.7 Other Publications	Clarification: Added the following references:
	2.3.7.1 Department of Defense Instruction
	(DoDI) 6055.06
	Fire and Emergency Services Program
	2.3.7.2 Air Force Instruction (AFI) 32-2001,
	The Fire Emergency Services Program
	2.3.7.3 Air Force Instruction (AFI) 31-101,
	Integrated Defense
	2.3.7.4 Air Force Instruction 32-1062,
	Electrical Systems, Power Plants, and
	Generators
	2.3.7.5 Air Force Manpower Standard, Fire
	Emergency Services Flight 44EF00
	2.3.7.6 Air Force Manual 17-1202,
	Collaboration Services and Voice Systems
	Management
	2.3.7.7 Unified Facilities Criteria (UFC) 4-
	730-10, Fire Stations
	2.3.7.8 Unified Facilities Criteria (UFC) 3-
	540-01, Engine-Driven Generator Systems for
	Backup Power Applications
	2.3.7.9 Unified Facilities Criteria 3-580-01,
	Telecommunications Interior Infrastructure
	Planning and Design
	2.3.7.10 Engineering Technical Letter 13-4,
	Standby Generator Design, Maintenance, and
	Testing Criteria
4.1.1	Clarification: The requirements of Chapter 4
	shall apply to the Primary ECC. IAW AFI 10-
	208, paragraph 3.4.1.
4.6	Clarification: Fire Station ECC's shall utilize
	UFC 4-730-10. BDOC ECC's shall utilize
	AFI 31-101.
4.7.1	Clarification: Utilize ETL 13-4 and AFI 32-
	1062.
4.7.1.4	Clarification: Install IAW UFC 3-540-01.
4.7.1.5	Clarification: Follow guidance IAW UFC 3-
	540-01. Generators for communication centers
	will be classified as "other permanently
	installed" generators and not "COPS." This
	classification is referenced in NFPA 70.
4.7.1.6*	Clarification: Follow guidance IAW ETL 13-
2.0	4 and AFI 32-1062. Air Force Civil Engineer
	Center (AFCEC) has final approval authority.
4.7.2 Primary Power Source.	Clarification: IAW Air Force standards;
	option 2 and 3 shall not be considered primary
	aparon 2 and a small not be considered printary

	power. Generators are designed and installed
	to provide back-up power in the event of
	commercial utility power loss.
4.7.3.1	Clarification: Follow guidance IAW ETL 13-
4.7.3.1	4 and AFI 32-1062.
4.7.4*	Clarification: Generator size shall be
4.7.4**	
	approved by AFCEC IAW ETL 13-4 and AFI
45.40.4	32-1062.
4.7.4.2.1	Clarification: Final authority for generators
	belongs to AFCEC.
4.7.4.3*	Clarification: "Additional loads" must be
	considered mission critical/essential. AFCEC
	has final approval authority.
4.7.4.10	Clarification: Natural gas generators are not
	permitted IAW ETL 13-4.
4.7.4.11	Clarification: LPG generators are not
	permitted IAW ETL 13-4.
4.7.4.12*	Clarification: 24-Hour fuel tank capacity is
	the minimum, ETL13-4.
4.7.4.12.1*	Clarification: IAW ETL 13-4, paragraph 13
	for authorized fuel types.
4.7.8.1*	Clarification: IAW ETL 13-4, paragraph14.6;
	battery UPS systems charging capability must
	be configured to minimize charging during
	generator operations. Ideally UPS battery
	charging must be disabled when on generator
	power.
5.1.1*	Clarification: Technical references for
	Chapter 5 ANSI/TIA/EIA 568 and 569
	Commercial Building Standard for
	Telecommunication Pathways and Spaces
	UFC-3-580-01.
5.1.3.1	Clarification: The requirements of Chapter 4
	shall apply to the Primary ECC. IAW AFI 10-
	208, paragraph 3.4.1.
7.3.1	Clarification: IAW AFMS 44EF00, Table
7.3.1	1.1. AF FES organizations are allocated 5
	dispatchers.
7.3.1.1*	Clarification: Implement IAW AFMS
7.3.1.1	44EF00, Table 1.1. AF FES organizations are
	allocated 5 dispatchers.
7.4.2.2	±
7.4.2.2	Clarification: Dispatch Time is defined in
0.04	DoDI 6055.06
8.2 through 8.2.3.6*	Clarification: Implement IAW AFMAN 17-
	1202.