

Seattle Fire Department 220 3rd Avenue S Seattle, WA 98104-2608 Email: SFD_FMO_SystemsTesting@seattle.gov

SYSTEM TEST REPORT

Please contact the PSERN project at DAS-PSERN@kingcounty.gov to arrange to borrow radios. PSERN does not participate in annual testing, no uplink appt is required. https://psern.org/confidential-resources

Distributed Antenna Systems (DAS)	STATUS			
☐ Annual Test ☐ Deficiency Repair Report	Red	☐ Yellow	☐ White	
Occupancy Information				
Building Name: Contact Name: Contact Address: Central Station Monitoring: Yes No	Building Address: Contact Phone: Contact Email: Monitoring Required: Monitoring Company		Yes 🗌 No	
Undate inventory information below. For commissioning. All fields are man	datory For annual te	est: enter any missing	values using results	
Update inventory information below. For commissioning: All fields are mandatory. For annual test: enter any missing values using results from the current annual test, otherwise do not change commissioning values. Upload grid square diagrams and other information using upload feature at end of inventory. After leaving this page, you will not be able to edit inventory, except by creating a new report.				
System Make:				
System Model:				
Design Firm of Record:				
Electrical Permit Application Date:				
Electrical Permit Number:				
Location of System in Building:				
Applicable Code & Year (e.g. IFC 2021):				
Is this a shared system (shared with cellular phone carriers and/or internal ra	adios?)	Yes	No	
Is this a fiber/active or a coax/passive system?		Active	Passive	
PSERN Retune Completed?		Yes	☐ No	
Grid square testing diagram and results uploaded to TCE?		Yes		
Diagram(s) uploaded to TCE showing location of BDA/DAS control equipmen	t, amplifiers, signal			
boosters, backup battery systems, and any outdoor antennas, and a wiring s	chematic.	☐ Yes		
Antenna Type:				
ERP to Donor Site (dBm):				
Testing shall be done using a PSERN public safety radio held at face level transmit mode, transmitting within 3' of the antenna predicted to have the BDA (based on distance from the BDA equipment). The output power than be measured with a calibrated power meter or spectrum analyzer measured power, and the estimated feedline loss plus antenna gain, she calculate the Estimated Radiated Power (ERP).	the lowest loss to er of the BDA shall . Using the			
Antenna Gain (dBd):				
Antenna Coordinates (NAD83):				
Antenna Azimuth (degrees true) (DAS vendor may select the antenna unless	directed to a			
specific antenna by the PSERN Operator):				
Uplink Gain Setting:		Gain Setting:	db	
		Power:	dbm	
Downlink Gain Setting:		Gain Setting:	db	
-		Power:	dbm	
Signal Level Received at Donor Site (-dBm):				
The signal level received at the donor site shall be measured by the PSE DAS vendor information at https://psern.org/confidential-resources. Yo radios from PSERN for your testing. A test signal shall be generated fror radio held at face level and placed in transmit mode, transmitting with predicted to have the lowest loss to the BDA (based on distance from the	ou will also borrow om a public safety in 3' of the antenna			

Signal Level Received from Donor Site (-dBm): Measure active control channel, w/20 KHz resolution bandwidth, at the jumper that connects to the DAS head-end donor port.			
Channelized Donor Site Name (to be selected by the DAS vendor unless directed by the PSERN			
project to a specific donor site):			
Channelized or Broadband (Note: new broadband systems are not accepted on PSERN):	ChannelizedBroadband	d	
List of Critical Areas in Building (for coverage testing requirements). Critical areas from NFPA 1225	and the Fire C	Code are: the	fire command
center(s), the fire pump room(s), interior exit stairways, exit passageways, elevator lobbies, standp	pipe cabinet:		
Attach grid square diagrams, and diagram of location of equipment and devices.			
Testing Company Information (All Fields Mandatory)			
Company Name: Phone:			
Address: Emergency Phone: Email:			
Technician/Tester Information (All Fields Mandatory)			
Technician Name:			
Technician FCC Certification/GROL#:			
Technician performing testing has received approved certification and manufacturer training or ot	:her	Yes	□No
approved equivalent:			
Specify certification/certificate and year:			
Testing Equipment (All Fields Mandatory)			
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.			
Test Information (Mandatory)			
Date of Test:	المصينيية المامية		to ation
The items on the checklists below shall be inspected and tested. This list does not constitute all of requirements for BDA/DAS. Refer to the CURRENT FIRE CODE AND REFERENCED NFPA STANDARD	-		testing
INSTRUCTIONS for weekly, monthly, and/or quarterly inspecting and testing requirements.	and the MAIN	JFACTURER 3	
PRE-TEST CHECKS			
Take precautions necessary to avoid preventable alarms.			
1 If a monitored fire alarm system is present in the building, the Central Station Monitoring			
Service was notified that DAS testing is occurring and will be generating supervisory	Yes	☐ No	□ N/A
signals.			
GENERAL - RECORDKEEPING			
The following documents from the installation/acceptance testing are stored in emergency r	esponder		
radio system enclosure and/or the building engineer's office. If original documents are no lo			
available, items a and b shall be re-created and stored:			
a. Grid diagram for each floor, showing test signal strengths in each floor, and indicating			
location of each critical area. Include information on location of fire-resistance-rated	Yes	☐ No	
pathways.			
b. A diagram showing location of BDA/DAS control equipment, amplifiers, signal boosters,			
backup battery systems, and any outdoor antennas, and a wiring schematic.	☐ Yes	☐ No	
c. Copies of manufacturer specification sheets for all BDA/DAS systems components,			
including amplifiers, signal boosters, antennas, coax, couplers, splitters, combiners, and	☐ Yes	☐ No	□ N/A
other passive components.			
d. Data sheets for the backup battery and charging system (if utilized), and include	Yes	□No	
calculations to ensure the backup power requirements are met.	☐ 1e3	☐ 1 10	
e. A copy of the completed Rebroadcast Agreement with PSERN is available in the emergency	Yes	□No	
responder radio system enclosure.	163		
f. Certification letter stating that the BDA/DAS system has been installed per code and was	Yes	☐ No	□ N/A
complete/fully functional at time of install.			
DAS SPECIFICATIONS/PERFORMANCE DURING CURRENT TEST			
Antenna Type:			

	to Donor Site (dBm):					
	Testing shall be done using a PSE	RN public safety rad	lio held at face level and placed in trai	nsmit		
	mode, transmitting within 3' of t	he antenna predicte	d to have the lowest loss to the BDA (based		
	on distance from the BDA equipment). The output power of the BDA shall then be measured with					
	-		g the measured power, and the estim			
	feedline loss plus antenna gain, s	hall be used to calcu	ılate the Estimated Radiated Power (E	ERP).		
	enna Gain (dBd):					
	enna Coordinates (NAD83):					
	enna Azimuth (degrees true) (DAS enna by the PSERN project):	vendor may select t	he antenna unless directed to a speci	fic		
Uplii	nk Gain Setting:	Gain Setting: Power:			db dbm	
Dow	nlink Gain Setting:	Gain Setting: Power:			db dbm	
Signa	al Level Received at Donor Site (-d	Bm):				
	ONLY REQUIRED AT TIME OF COI	MMISSIONING, NOT	REQUIRED FOR ANNUAL TESTING. Th	e signal		
	level received at the donor site sh	nall be measured by	the PSERN Project - see the DAS vende	or		
	information at https://psern.org/	confidential-resour	ces. You will also borrow radios from l	PSERN		
	for your testing. A test signal sha	ll be generated from	n a public safety radio held at face lev	el and		
	-	-	e antenna predicted to have the lowe	st loss to		
	the BDA (based on distance from		·).			
Sign	al Level Received from Donor Site					
		w/20 KHz resolution	bandwidth, at the jumper that conne	ects to		
Char	the DAS head-end donor port. Innelized Donor Site Name (to be s	alastad by the DAS	rondor unloss			
	cted by the PSERN project to a spe	· ·	vertuor uritess			
	nnelized or Broadband:	cinc donor site.	Channelized	Broadb	and	
	IVE COMPONENTS					
3	Signal booster is within a NEMA	4 or IP66 or equivale	ent enclosure. *Only select N/A if			
	system was installed prior to the	adoption of the 200	09 edition of the local Fire Code.	☐ Yes	☐ No	☐ N/A*
4	Battery is within a NEMA 3R or IF	P65 or equivalent en	closure (or NEMA 4 or IP66 for			
4	Battery is within a NEMA 3R or IF systems installed under the 2009		iclosure (or NEMA 4 or IP66 for	□ Vos	□ No	□ N/ ∧ *
4	systems installed under the 2009	9-2015 code).	adoption of the 2009 edition of the	☐ Yes	☐ No	□ N/A*
4	systems installed under the 2005 * Only select N/A if system was i local Fire Code.	9-2015 code).		_		☐ N/A*
5	* Only select N/A if system was i local Fire Code. Equipment is FCC certified.	9-2015 code).		☐ Yes	□ No	□ N/A*
5	systems installed under the 2005 * Only select N/A if system was i local Fire Code.	9-2015 code).		_		□ N/A*
5	* Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required:	9-2015 code). nstalled prior to the		☐ Yes		□ N/A*
5	systems installed under the 2005 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This	9-2015 code). nstalled prior to the	adoption of the 2009 edition of the	☐ Yes		□ N/A*
5	systems installed under the 2005 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This	9-2015 code). Installed prior to the stalled prior	adoption of the 2009 edition of the d with an Emergency Responder Radi m" and signage on or adjacent to	☐ Yes		□ N/A*
5	systems installed under the 2005 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment of the coverage System."	p-2015 code). Installed prior to the stalled prior to the stalled prior to the stalled prior to the stalled prior to the main system could be stalled to the main system could be stalled to the stalled prior to the stal	adoption of the 2009 edition of the d with an Emergency Responder Radi m" and signage on or adjacent to	☐ Yes	□ No	□ N/A*
5	systems installed under the 2005 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment door of the room containing Responder Radio Coverage System.	9-2015 code). Installed prior to the building is equippe ment located in roor the main system come Equipment".	adoption of the 2009 edition of the d with an Emergency Responder Radi m and signage on or adjacent to mponents stating: "Emergency	☐ Yes	□ No	□ N/A*
5	systems installed under the 2005 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment door of the room containing Responder Radio Coverage System. DAS is communicating with same	p-2015 code). Installed prior to the building is equippe ment located in roor the main system come Equipment".	adoption of the 2009 edition of the d with an Emergency Responder Radi m " and signage on or adjacent to mponents stating: "Emergency ified at time of commissioning or	☐ Yes	□ No	□ N/A*
5	systems installed under the 2009 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment the door of the room containing Responder Radio Coverage System. DAS is communicating with same communicating with approved designed.	e-2015 code). Installed prior to the building is equippe ment located in roor the main system come Equipment". It donor site as ident onor site as docume	adoption of the 2009 edition of the d with an Emergency Responder Radi m " and signage on or adjacent to mponents stating: "Emergency ified at time of commissioning or	☐ Yes	□ No	□ N/A*
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5	systems installed under the 2009 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment the door of the room containing Responder Radio Coverage System. DAS is communicating with same communicating with approved do Operator or Authority Having Jur DAS signal strength received from	nstalled prior to the building is equippe ment located in roor the main system com Equipment". donor site as ident onor site as docume risdiction. m donor site at the i	adoption of the 2009 edition of the d with an Emergency Responder Radi m" and signage on or adjacent to mponents stating: "Emergency ified at time of commissioning or ented in writing by Radio System input to the BDA meets original	☐ Yes ☐ Yes ☐ Yes ☐ Yes	□ No	□ N/A*
5 6 7	systems installed under the 2005 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment the door of the room containing Responder Radio Coverage System. DAS is communicating with same communicating with approved do Operator or Authority Having Jur DAS signal strength received from installation values plus or minus.	s building is equippe ment located in roor the main system come Equipment". It donor site as ident onor site as documents is diction. In donor site at the income as the income the income is the income is the income is diction.	adoption of the 2009 edition of the d with an Emergency Responder Radi m " and signage on or adjacent to mponents stating: "Emergency ified at time of commissioning or ented in writing by Radio System input to the BDA meets original section for commissioning values or in	☐ Yes O ☐ Yes ☐ Yes	No	
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5 6 7	systems installed under the 2005 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment the door of the room containing Responder Radio Coverage System. DAS is communicating with same communicating with approved do Operator or Authority Having Jurn DAS signal strength received from installation values plus or minus not available, from most recent as	e-2015 code). Installed prior to the stalled prior to the stalled prior to the stalled prior to the stalled in roor the main system come Equipment". It donor site as ident onor site as docume isdiction. In donor site at the income donor site at the income and test (see inventory annual test (see inventory cannual test (see inventory ca	adoption of the 2009 edition of the d with an Emergency Responder Radi m and signage on or adjacent to mponents stating: "Emergency ified at time of commissioning or ented in writing by Radio System input to the BDA meets original section for commissioning values or in entory section of this report). If no	☐ Yes O ☐ Yes ☐ Yes	No	
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5 6 7	* Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment the door of the room containing Responder Radio Coverage System. DAS is communicating with same communicating with approved do Operator or Authority Having Jur DAS signal strength received from installation values plus or minus not available, from most recent aprior values are available, then the inventory section, then select N/A.	abuilding is equippe ment located in roor the main system come Equipment". It donor site as ident onor site as docume risdiction. In donor site at the income and the income and the income are the income and the income are values from currents.	adoption of the 2009 edition of the d with an Emergency Responder Radi m and signage on or adjacent to mponents stating: "Emergency ified at time of commissioning or ented in writing by Radio System input to the BDA meets original section for commissioning values or in entory section of this report). If no	☐ Yes O ☐ Yes ☐ Yes	No	
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5 6 7	systems installed under the 2009 * Only select N/A if system was i local Fire Code. Equipment is FCC certified. If no, list corrections required: Signage at Fire Alarm Panel "This Coverage System. Control equipment the door of the room containing Responder Radio Coverage System. DAS is communicating with same communicating with approved donerator or Authority Having Jur DAS signal strength received from installation values plus or minus not available, from most recent aprior values are available, then the inventory section, then select N/ Uplink amplifier gain matches gas section for commissioning values inventory section of this report).	abuilding is equippement located in roor the main system come Equipment". adonor site as ident onor site as docume isdiction. adonor site at the income the test (see inventory annual test (see inventory annual test (see inventory annual test). A for this question. In at commissioning is or if not available, if no prior values ar	adoption of the 2009 edition of the dwith an Emergency Responder Radii m and signage on or adjacent to mponents stating: "Emergency ified at time of commissioning or ented in writing by Radio System input to the BDA meets original section for commissioning values or itentory section of this report). If no ent test must be added to the	☐ Yes O ☐ Yes ☐ Yes	No	

10	Downlink amplifier gain matches gain values recorded at commissioning plus or minus 2 db. See inventory section for commissioning values or if not available, from most recent annual test (see inventory section of this report). If no prior values are available, then the values from current test must be added to the inventory section, then select N/A for this question.	☐ Yes	□ No	□ N/A	
11	Antenna azimuth (bearing) matches commissioning azimuth plus or minus 5 degrees. See inventory section for commissioning values or if not available, from most recent annual test (see inventory section of this report). If no prior values are available, then the values from current test must be added to the inventory section, then select N/A for this question.	☐ Yes	☐ No	□ N/A	
	Active components checked to verify operation within manufacturer's specifications: Equipment alarm log checked for recurring or substantial alarms and addressed as per manufacturer's recommendations.	☐ Yes	☐ No		
b.	Isolation testing performed and measured system isolation is at least 20 db above the total downlink and the total uplink gain (whichever is greater) between least isolated DAS antenna and the donor antenna.	Yes	☐ No		
DIST	RIBUTION SYSTEM AND COVERAGE – OPTION 1: STANDARD TEST				
	Perform in-building coverage test/grid test using a calibrated spectrum analyzer: Signal strength remains stronger than (less negative than) -95 dBm for 95% of grids on each floor in non-critical areas (for a 20 grid square test, this means that at least 19 of the grids must pass for the floor to pass). If no, location(s) of failed grids:	☐ Yes	□ No		
13b	The list of critical areas to be provided coverage in this building is complete (list is stored and can be edited in the prior inventory portion of this report).	Yes	☐ No		
13c	Critical areas are provided with 99% floor area radio coverage with coverage stronger than - 95 dBm. If no, location(s) of critical areas that do not meet threshold:	☐ Yes	☐ No		
passa	al areas from NFPA 1225 and the Fire Code are: the fire command center(s), the fire pump roo ageways, elevator lobbies, standpipe cabinets, sprinkler sectional valve locations, and other are Perform functional (talk-back) testing in each critical area using one radio in the building and one radio outside the building – radios function sufficiently for communications with a DAQ of 3 or higher? If no, location(s) of non-acceptable communications:				
13e	Perform functional (talk-back) testing between each critical area in the building to fire command center, or if no command center, fire alarm control panel – radios function sufficiently for communications with a DAQ of 3 or higher? If no, location(s) of non-acceptable communications:	☐ Yes	□ No		
This	DISTRIBUTION SYSTEM AND COVERAGE – OPTION 2: ALTERNATIVE IN-BUILDING COVERAGE TEST This section may be utilized in lieu of Option 1 (13a-e) only when the full grid square test documentation from the acceptance test and most recent previous annual test results are available.				
	Perform alternative in-building coverage test/grid test in non-critical areas. Signal strength shall be tested using a spectrum analyzer. For floor plate with standard 20 grid squares, test 3 grids per floor, those grids having the poorest performance in the acceptance test or in subsequent annual testing, when annual testing has previously occurred. Failure of 1 grid is 95% pass rate and acceptable. Failure of more than 1 grid (signal strength weaker than -95 dBm) on a floor indicates failure of the in-building coverage test for the building. Is test passed? If no, location(s) of failed grids:	☐ Yes	□ No		
14b	Signal strength shall be tested for one grid for each serving antenna, if not already tested in 14a. Is test passed? If no, location(s) of failed grids:	☐ Yes	□ No		

14C	with inventory information above). If not correct, modify inventory list and once correct, select Yes.	☐ Yes	☐ No	
	cal areas from NFPA 1225 and the Fire Code are: the fire command center(s), the fire pump ro ageways, elevator lobbies, standpipe cabinets, sprinkler sectional valve locations, and other ar		-	
14d	Perform alternative in-building coverage test/grid test in critical areas: Signal strength shall be tested using a spectrum analyzer in all critical areas identified in the original acceptance test. In-building coverage for critical areas shall be considered acceptable when 99% of critical areas have signal strength stronger than -95 dBm).	Yes	□ No	
	If no, location(s) of critical areas that do not meet threshold:			
14e	Perform functional (talk-back) testing between a radio in the fire command center and a radio at a location outside the building – radios function sufficiently for communication with a DAQ of 3 or higher. If no, location(s) of non-acceptable communications:	☐ Yes	□ No	
14f	Perform functional (talk-back) testing between a radio at the fire alarm control panel and a radio at each landing in each stairwell – radios function sufficiently for communication with a DAQ of 3 or higher. If no, location(s) of non-acceptable communications:	☐ Yes	□ No	
BAT	TERIES/SECONDARY POWER			
15	Backup batteries and secondary power supply tested under load for one hour and meet requirements.	Yes	☐ No	
	RM PANEL MONITORING			
16	If a fire alarm system is present in the building, the fire alarm system is supervising the DAS including donor antenna function, active RF emitting device failure, and power supply. Separate annunciation is not required at fire alarm panel, if a secondary panel at the DAS separately indicates these conditions. *Only select N/A if system was installed prior to the adoption of the 2009 edition of the local Fire Code, or if the building is not required by code to have a fire alarm system.	Yes	□ _{No}	□ _{N/A*}
17	If a fire alarm system is present in the building, the communications link between the fire alarm system and the in-building emergency responder communications enhancement system is monitored for integrity and the monitoring is operating correctly.	Yes	□ _{No}	
18	For buildings without a fire alarm system, a dedicated monitoring panel annunciates supervisory and trouble signals for the signal booster system and power supply(ies) and sounds an audible signal at a constantly attended location. *Select N/A only if the building has a fire alarm system and information was provided in questions 16, 17, and 19 regarding the alarm system.	☐ Yes	□ No	□ N/A*
	L CHECKS			
19	If building includes a fire alarm system, inform alarm monitoring company that testing is complete and return fire alarm service to normal functioning if other precautions were taken during testing.	Yes	☐ No	□ N/A
SIGN	IATURES AND REPORTING			
20	A current red, yellow or white tag was placed on the system indicating the system's status and test date consistent with my inspection today. For projects in Seattle, see also SFD Administrative Rule 9.02.	☐ Yes	☐ No	
	The color of the tag is: "Red (Impaired/Not Functioning)" "Yellow (Deficiencies Noted)" "White (System Normal)"	Red	☐ Yellow	☐ White
21	A record of the inspection and maintenance along with an updated grid diagram of each floor showing tested strengths in each grid square and each critical area shall be provided to the building owner and included with the documentation maintained in the DAS enclosure or building engineer's office.	☐ Yes	☐ No	
22	Lyill provide a copy of the confidence test report to the owner	□ Voc	□ No	

23	I will submit this test report within seven days of the date of the test to the fire department through TCE.	Yes	☐ No	
insp Star Ow acco By a wor the	accepting this statement, I, the certified technician shown on this form, certify that this fire properties of the prope	rtment that has ave been report ction/repair da today and SFD State of Washir by accepting th	jurisdiction and NFPA ted to the building te, and I have placed an Administrative Rule 9.02. agton if required for the his statement I attest that	
	I am authorized to submit this report for the certified technician who laccepted this statement.	has (I	nitials of Employee)	
SIGNATURE (OPTIONAL)				
Sigr	nature of Technician			
Signature of Building Representative				
	This Document Is For Informational Purpose	s Only		
	To submit reports to SFD, use the online forms at www.thecompliance	eengine.com.		