

Manual Index Screen By Screen





Screen 6, Graph Graph Hold Height vs. Time Table





Index Screen By Screen

eneral Prot	ected Zone	Pre-Test Checklist	Test	Graph	Attendance	Leak Survey	
Authority	Having Juri	sdiction (AHJ)				Other Atte	ndee 2
Name	Lt. Stan C	NT.				Name	Mr. Tom Bany
Title		Fire Prevention Div	ieinn			Title	Site manager
Company		Fire Department				Company	XYZ On Line Services, Inc.
Address	123 Main 1						
	Any Town	00928					
						Other Atter	ndee 3 Mr. Jenv Wolf
Phone	123-456-9	111				Title	President
Fax	123-456-8	766					
Email	scan@arty	townfd.org				Company	Wolf Contracting, Inc.
Other Atte	ndee 1					Other Atte	ndee 4
Name	Mr. Jon Ga	stes				Name	
Title	Manage I1	Services				Title	
Company	XYZ On Li	ne Services				Company	

Attendance Capture, for the record, the names and companies of witnesses to the

test including the AHJ if present.

Screen 7, Attendance Authority Having Jurisdiction Attendees

> Leak Survey Should the test fail, the optional leak survey lists the common leakage areas to help guide the customer in sealing the zone. This may or may not be included in the final test report depending on the tester's requirements.

Enclosure	ntegrity Test - D:\EIT Pr	ogram Publish	ned Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst*	- • ×
File Tools Reference Calculate	Retest Help			
General Protected Zone Pre-Test Checkli	st Test Graph Attendano	e Leak Survey		
Walls floor to deck?	Corrected Yes	~		1
Walls caulked at floor?	Corrected Yes	~		
Walls caulked at deck?	Corrected Partia	ly v	Pockets on west wall to be sealed	
Doors weather-stripped?	Corrected Yes	~		
Doors, drop seals?	Corrected Yes	~	Metal thresholds to be installed	
Door closers installed and adjusted?	Corrected Yes	~		
Windows Caulked	Corrected None	~		
Exting conduits sealed?	Corrected Repo	rted Yes 🗸 🗸		
Exting cables sealed?	Corrected Repo	ted Yes 🗸 🗸		
Cable trays sealed?	Corrected None	~		
All holes, penetrations sealed?	Corrected Yes	~		
Roor drains trapped and filled?	Corrected None	~		
Dampers installed on all exiting ducts?	Corrected Repo	ted Yes 🗸 🗸		
Dampers working and adjusted?	Corrected Repo	rted Yes 🗸 🗸		
Block walls painted?	Corrected Not A	pplicable v		
Celling tiles clipped?	Commend Var			

Screen 8, Leak Survey Optional Leak Survey



			Eľ	T	Ruick Test	f 1m
					CHICK ICH	
			Soro	on '	2, General Test In	formo
			Scie		2, Ocheral Test III	101111a
8		Enclosure Integrity Test -	D:\EIT Program Pu	ublished V	ersions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.f	fst* 🗕 🗆
File Tool	ls Refere	ence Calculate Retest Help	1			
and the second second second		Pre-Test Checklist Test Graph	Attendance Leak Sun	vey		
Test Info	mation	XYZ On Line Services, Computer Ro	am //EIT Quick Test let!	Sample Test a	nd Propotil)	
Job ID Date and T	ìme	7/ 1/2014 ¥ 4:22:21 PM €		Sampio Teaca	in report/	
Tester	ine	Mark Weathersby]			
Test Stand	ard	NFPA 2001:2012	~			
Company				Test Site	Location	
	10/7.0				XYZ On Line SErvices. Inc.	
Name		Line Services, Inc		Name		
Address		ashinton Blvd. vn, OZ 00923		Address	890 Westpark Dr. Any Town, OZ 00926	
			Copy to >>			
Phone	123-456-	-7890		Phone	123-654-0987	
Fax	123-456-	-7899		Fax	123-654-0988	
Email	mail@xy;	zonlineservices.com		Email	computer@xyzonlineservices.com	
Contact	Mr. Jon (Gates		Contact	Mr. Tom Beny	

- 1. **Job ID**: You may use your company filing system name here or other identifying name. This will appear at the top of each page of the report.
- 2. **Date and Time**: This is taken from your computer however it may be manually changed should the test be delayed after you have logged in to EIT Quick Test Intl.
- 3. Tester: The name of the technician actually conduction the enclosure integrity test.
- 4. **Test standard**: Here you select the NFPA Test Standard, depending on your local code requirements you have a choice of:

NFPA 2001/2004 NFPA 2001/2012 NFPA 2001/2015

5. Company: this is the name, address etc. for your customer.

6. **Job Site Location**: In many cases the company name is the company office but the test site is at a different location: for example your contract may be with Verizon at their local office but the test site is a cell tower at a different location.

If the test site is the same as the company then simply click the "Copy To" button to transfer the data

7. Lower left corner: When the test is completed the hold time will show here on all screens.



		T Ruick Test Intl
	U	I VUICK JEST INTI
		Screen 3, Protected Zone
	Enclosure Integrity Test - D:\EIT Progra	am Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* - 🗖
	nce Calculate Retest Help	
General Protected Zone	Pre-Test Checklist Test Graph Attendance Les	eak Survey
Zone		High Hazard
Name/Number	Computer Room, Number 107	Description Server racks
Location	First Floor	Height 8 ft
Description	Computer and server room	Min Protected Height 8 ft
Hold Time Condition		Protected Volume
	Decending Interface	L W H 50 ft 30 ft 12 ft 18000 ft ³ Clear
	Continuous Mixing	
Agent		$0 t 0 t 0 t 0 t^3$
Туре	FM-200 V	
Design Concentration	7.2 %	18000 ft ³ Protected Volume
Minimum Concentration	6.12 %	Protected Volume 18000 ft ³ Max Flooded (Protected) Height 12 ft
Test Type	Oregoing Total Zoor Ladress	Installed Suppression Agent
	Standard Total Zone Leakage Suspended Ceiling Leakage Neutralization	Total Installed Weight 0 b Installed Concentration 0.00 %
	O Suspended Ceiling Leakage Neutralization (Below ceiling leakage - BCLA)	Use this concentration for calculations
12.48 minutes hold time		

1. **Zone**:

Name/Number: If known use the name and/or used by your customer or as noted on your drawings.

Location: This may be simply "first floor" or "ground floor" but in cases like a large hospital or college campus it may be "3rd Floor West Hall" or "Schaefer Hall Lower Level"

Description: Is the "computer room", "server room", "telcon room", "MRI room" or ?

2. Hold Time Condition:

Descending Interface or Continuous Mixing

If all HVAC systems are shut down prior to discharge and there is no moving air in the zone the gas/air mixture will leak out the lower leakage areas and fresh air will enter through the high leakage areas. A layer or interface will form between the gas/air mixture and the fresh air. This interface will drop over time.

If the HVAC systems continue to operate after discharge, the heavy gas/air mixture will leak out of the lower leakage areas and fresh air will enter through the high leakage area. But since the HVAC system continues to operate mixing the room air the concentration of the suppression gas will drop.

See Special Notes, Page 19 Continuous Mixing

3. Agent

Type: This is a drop down listing all the NFPA 2001 clean agents (will all trade names), Halon, and $\rm CO_2$

Concentration: When a gas is selected the nominal concentration is shown here. However it is important to check the drawings or contact the system designer to verify the actual design concentration.

Minimum Concentration: In case of "Continuous Mixing" the NFPA 2001 codes allow a minimum concentration of 85% of the design concentration. This is calculated from the above design concentration and is only active when "Continuous Mixing" is selected.





Screen 3, Protected Zone, Continued

5. Test Type:

Standard Total Zone Leakage / Suspended Ceiling Leakage Neutralization (Below Ceiling Leakage Area –BCLA)

Standard Total Zone Leakage: The zone during test is in it's normal state with no special covering of the ceiling.

Suspended Ceiling Leakage Neutralization: The ceiling has been covered with sheet plastic to block of leakage through the drop ceiling. A technique which can be used when there is excessive un-sealable leakage area above the drop ceiling or a totally open plenum.

See Special Notes, Page 17

6. High Hazard:

Description: What is the hazard or what is being protected with the suppression gas, i.e. server racks, UPS, UPS Batteries, computer, art storage, rare books, or ?

Height: What is the height of the protected item? Height is measured from the lowest point if on the regular floor or slab then from the floor, if on a raised floor then from the slab or floor under the raised floor.

Minimum Protected Height: Normally this is the same as the Height and is automatically filled in. However is some cases the AHJ or owner may want the protected height to be higher than the height of the hazard. This can be changed by typing over. Note: the calculated hold time is based on this Minimum Protected Height.

Important Note: Minimum Protected Height is the height of the hazard or the protected property. Maximum Flooded (Protected) Height is the height of the zone. The minimum height must always be less than the maximum height

6. Protected Volume:

For a normal cube shaped zone you may enter the length, width, height of up to three connected areas (all in one zone) and the program will calculate the total volume or you may simply type the total Protected Volume. This will be necessary when the protected volume is a unusual shape and not a cube. It is useful to sketch the zone and divide into squares, triangle or even is some case parts of a circle to calculate total volume. It is strongly recommended to do your own measurements on site and not rely on the submitted drawings as often there can be changes in the zone during or after construction.

7. Max (Maximum) Flooded (Protected) Height:

In case of a cube shaped zone this is the over all height of the zone. Note: This Maximum height is always greater than the Minimum Protected Height. If you mistakenly enter a height grater than the minimum protected height you will get an error message.

In case of more than one connected rooms (one zone) of different heights the program will calculate an weighted average height of the zone based on the area of each protected room.

8. Installed Suppression Agent:

Total Installed Weight: The total weight of the gas in the tank(s) taken off the label of the tank. Only used with the gases such as FM-200 which are measured by weight not the high pressure gasses like nitrogen or Inergen which are measured by volume.

The program calculates the Installed Concentration. You may use this concentration for calculating hold time by checking the box: Use this concentration for calculations.



	ick Test Int(Test Checklist, Comme
est - D:\EIT Program Published Versions warth	thog\1.0.0.9\Davis Ulmer\Demo Test.fst* – 🗆 🗙
em off Pretest Estimate scharge mode ctivated	
	Remove the vinyl cove molding and vz Install proper jam mounted weather strij Install and adjust drop seal (automatic i Seal windows and frames with clear stil Install motorized dampers on all HVAC Remove all tempoary sealing applied d
	Screen 4, Pre-T est - D:\EIT Program Published Versions ward telp aph Attendance Leak Survey em off scharge mode

1. Pre-Test Checklist:

This is a reminder list for the testing technician cover a few important items that might be overlooked. This does print in the test report.

2. Pretest Estimate:

Clicking on the button will bring up the pretest Estimate showing the maximum allowable leakage area for the zone.

Pretest Estimate	Pretest Estimate	
	Pretest maximum allowable leakage area	3.287115 ft ²
	This prediction assumes a 10 minute hold time at a minimum protected height of	8 ft

Useful comparing the found leakage area or as guide to the owner or contractor prior to a test.

3. Comments:

An open field to type in any special comments on the test which will print in the test report.

For example: "All areas temporary sealed (such as with duct tape or plastic sheeting) must be permanently sealed prior to final acceptance."

Or "Satisfactory quality weather stripping must be installed on test door prior to final acceptance."

4. Comment right field:

We have included a few often used comments. These may be double clicked and added to the comment field and modified as necessary. If your company has standard clauses or disclaimers to be included in each report these may be added to the selection. They are entered in the Tools tab.



		C I T	n .]			. 4
		U	Rui	ICK	. /	est I	/わて
_		•					
			Sc	reen	5, T	est	
					-		
Enclo	sure Integrity Te	est - D:\EIT Program Published \	Versions warthoo\10	0 15 B 2 0\S	ample Test R	enort\Demo Test f	ct* - 🗆
File Tools Reference		etest Help	versions warmog(no.	.0.15 0 2.0 (5)	ampie reserv	eponto resul	51
General Protected Zone R	Pre-Test Checklist	est Graph Attendance Leak Survey					
Discharge Conditions		At Test Conditions	Temperature		Hold Time		
Bias (Static) Pressure	en.o pa	Bias (Static) Pressure -1.3 pa	Inside Zone Outside Zone	68 F	Predicted reten	tion time tected height of	11.47587 m
Airis blowing () into z		Air is blowing into zone out of zone	Outside Zone	68 F	Equivalent Leal	-	8 ft 2.888143 ft
Depressurization		Cannot Reach 50PA					
Target Pressure	17 - 22	N/A	N/A	N/A		N/A	
Measured Pressure	-16.8 pa	0 pa	0 pa		0 pa	0 pa	
Measured Flow	1680 cfm	0 cfm	NFPA 20	01/200	A Tool	t Saraan	
Flow Ring	A	¥ V	INFFA 20	01/200	14 165	i Screen	v
Equiv. Leakage Area	3.665961 ft ²	0 ft ²	U tt*		U π ²	U ttr	
Pressurization							
Target Pressure	14.4 - 18.7	N/A	N/A	N/A		N/A	
Measured Pressure	18.8 pa	0 pa	0 pa		0 pa	0 pa	
Measured Flow	1790 cfm	0 cfm	0 cfm		0 cfm	0 cfm	
Flow Ring	A	✓	~ ~		\sim		<i>~</i>
	2.110325 ft ²	0 ft ²	0 ft ²		0 ft ²	0 ft ²	

1. Bias (Static) Pressure (See "Static (Bias) Pressure Notes" page 18 and "Conducting an Enclosure Integrity Test, A photo Summary Photo 30", and "Conducting a NFPA 2001 Enclosure Integrity Test Part 2")

Discharge Conditions; This is the static (bias) pressure at discharge conditions. If the gauge is properly connected enter the pressure from the gauge including the sign (+/-) the program will set the proper air blowing state which may be difficult to determine visually.

At Test Conditions: This is the static (bias) pressure at test conditions.

2. Temperature:

Inside zone: This is the temperature of the protected zone. If this is a computer/server room with special HVAC systems the temperature may be taken off the HVAC control system.

Outside Zone: This is the temperature of the area surrounding the protected zone, often the office area. Not "outside" the building unless the protected zone is something like a cell site control building (box).

3. Hold Time:

Will be calculated by the program when the test is completed.

4. Test Data:

NFPA 2001/2004 Enclosure Integrity Test

(see "Conducting a Enclosure Integrity Fan Test, a Photo Summary, "The Cheat Sheet" and ?) The 2004 code requires both a depressurization and pressurization test at one pressure within the Target Pressure range.

With the fan in the door panel and the gauge properly connected and tester inside the zone

Start by depressurizing the zone, that is with the white flow rings facing you and the fan blowing out. For a small zone that is well sealed start with the C ring, with large zone start with the A ring. Turn fan on and bring up to target pressure range. If you can not reach the target pressure turn fan off and remove one flow ring. If the flow reading flashes LO LO, turn fan off and add a flow ring.

When pressure and flow stabilize record **Measured Pressure** and **Measured Flow** readings along with **Flow Ring** which is a drop down selection.

Turn fan around a repeat above steps. Most often the fan flow ring configuration will be the same but sometimes you make have change the flow rings.



			Sc	reen	5 Te	est	
					•, -		
		est - D:\EIT Program Publ	ished Versions warth	og\1.0.0.15\I	FST V1.0.0.15\	Demo Test.fst*	
File Tools Referenc		Help	7				
General Protected Zone F		Graph Attendance Leak Survey	Temperature		Hold Time		
Bias (Static) Pressure		atic) Pressure 0 pa	Inside Zone	68 F	Predicted retenti	on time	12.47799 r
Airis blowing) into z		owing () into zone	Outside Zone	68 F	At minimum prote	ected height of	8 f
◯ out of	zone	O out of zone			Equivalent Leak	age Area	2.654049 ft
Depressurization		Cannot Reach 50PA					
Target Pressure	-10pa	-50pa	-N/A	-N/A		-N/A	
Measured Pressure	-10 pa	-50 pa					
Measured Flow	1300 cfm	2900 cfm	NFPA 2	001/20)12, 20	15 Test So	creen
Flow Ring	~	~					
Equiv. Leakage Area	2.654049 ft ²	2.647759 ft ²	0 ft ²		0 ft ²	0 ft ²	
Pressurization							
Target Pressure	10pa	50pa	N/A	N/A		N/A	
	10 pa	50 pa	0 pa		0 pa	0 pa	
Measured Pressure			0 cfm		0 cfm	0 cfm	
Measured Pressure Measured Flow	1300 cfm	2900 cfm	U Chin		o onn		
	1300 cfm	2900 cfm	v cm		v cini		

NFPA 2001/2012, 2015 Enclosure Integrity Test

(see "Conducting a Enclosure Integrity Fan Test, a Photo Summary, "The Cheat Sheet" and "Conducting a NFPA 2001 Enclosure Integrity Test Part 2)

The 2012 and 2015 code requires two depressurization tests and two pressurization tests at 10pa and 50pa.

With the fan in the door panel and the gauge properly connected and tester inside the zone

Start by depressurizing the zone, that is with the white flow rings facing you and the fan blowing out. For a small zone that is well sealed start with the C ring, with large zone start with the A ring. Turn fan on and bring up to 10pa. If you can not reach 10pa turn fan off and remove one flow ring. If the flow reading flashes LO LO LO, turn fan off and add a flow ring.

When pressure and flow stabilize record readings along with flow ring.

Repeat above step and depressurize to 50pa. Often you may have to change flow rings to reach 50pa. Turn fan around a repeat above steps. Again you may have to change flow rings to meet the required test pressures.

When both depressurization and pressurization data are entered the calculated hold time will show in the upper right hand corner and the lower left hand corner on all screens.

The NFPA code requires a 10 minute hold time but a lesser time may be approved by the local AHJ depending on several factors.







Company And Town Rive Department Address 123 Main Street Ary Town, 00928 Phone 123456-9111	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* - File Tools Reference Calculate Retet Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Name Lt. Stan Carr Title Inspector. Pre Prevention Division Company Ary Town Fire Department Address 123 Main Street Ary Town, 00528 Other Attendee 3 Other Attendee 3	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Reter Mane It: Stan Carr Name Title Inspector, Fire Prevention Division Company Arry Town Fire Depatment Address 123 456-8766 Enail scarr@arrytownfd org Cher Attendee 1 Company Name Mr. Jon Gates	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklat Test Graph Attendance Leak Survey Acthority Having Jurisdiction (AHJ) Name Ll. Stan Carr Title Inspector, File Prevention Division Company Ary Town File Department Address 123 Main Street Ary Town, 00928 Other Attendace 3 Name 1123 456-9111 Fax 1123 456-9766 Wolf Contracting, Inc.	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* - File Tools Reference Calculate Retext Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name Mr. Tom Bany Title Ste manager Company Title Ste manager Company XYZ On Line Services, Inc. Other Attendee 3 Name Mr. Jonn Bany Title Ste manager Company XYZ On Line Services, Inc. Other Attendee 3 Name Mr. Jonn Wolf Title Prevention Division Other Attendee 3 Name Mr. Jonn Wolf Title Prevention Division Other Attendee 3 Name Mr. Jonny Wolf Title Prevention Division Other Attendee 3 Name Mr. Jonny Wolf Title Prevention Division Other Attendee 4 Other Attendee 1 Other Attendee 4	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* - C File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Attentity Having Jurisdiction (AHJ) User Attendee 2 Name Mr. Tom Bany Title Ste manager Company Ary Town Fire Department Other Attendee 3 Name Mr. Zon Line Services, Inc. Other Attendee 3 Phone 123:456:9111 Title Persident Company Wolf Title Title Persident Company Wolf Title Company Wolf Title Title Persident Company Wolf Title Company Wolf Contracting, Inc. Earlier Other Attendee 4 Other Attendee 4 <t< th=""><th>Enclosure Integrity Test - D\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Reterence Company Address 123 Main Street Address 123 Main Street Address 123 456-9766 Company Wolf Tale President Company Wolf Tote President Company Wolf Tale Pres</th></t<>	Enclosure Integrity Test - D\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Reterence Company Address 123 Main Street Address 123 Main Street Address 123 456-9766 Company Wolf Tale President Company Wolf Tote President Company Wolf Tale Pres
Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklat Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Name L: Stan Car Title Inspector, Fire Prevention Division Company Ary Town Fire Department Address 122 Main Street Ary Town, 00928 Phone 122456-9111 Other Attendee 3 Name Mr. Jenny Wolf	Enclosure Integrity Test - D\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Retext Help General Protected Zone Prone 123:456-9111 Fix 123:456-9766 Email scare@enytowrfd org Other Attendee 1 Other Attendee 4	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Reter Mane It: Stan Carr Name Title Inspector, Fire Prevention Division Company Arry Town Fire Depatment Address 123 456-8766 Enail scarr@arrytownfd org Cher Attendee 1 Company Name Mr. Jon Gates	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklat Test Graph Attendance Leak Survey Acthority Having Jurisdiction (AHJ) Name Ll. Stan Carr Title Inspector, File Prevention Division Company Ary Town File Department Address 123 Main Street Ary Town, 00928 Other Attendace 3 Name 1123 456-9111 Fax 1123 456-9766 Wolf Contracting, Inc.	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* - File Tools Reference Calculate Retext Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name Mr. Tom Bany Title Ste manager Company Title Ste manager Company XYZ On Line Services, Inc. Other Attendee 3 Name Mr. Jonn Bany Title Ste manager Company XYZ On Line Services, Inc. Other Attendee 3 Name Mr. Jonn Wolf Title Prevention Division Other Attendee 3 Name Mr. Jonn Wolf Title Prevention Division Other Attendee 3 Name Mr. Jonny Wolf Title Prevention Division Other Attendee 3 Name Mr. Jonny Wolf Title Prevention Division Other Attendee 4 Other Attendee 1 Other Attendee 4	Enclosure Integrity Test - D:\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklat Test Graph Attority Having Jurisdiction (AHJ) User Mane Mr. Tom Bany Name L. Stan Carr Title Bany Title Inspector, Fire Prevention Division Other Attendee 2 Company Ary Town, Tire Department Other Attendee 3 Address 123 456-9111 Title Standert Fix 123-456-9111 Title Persident Company Mr. Jeng Wolf Title Title Persident Company Mane Mr. Jeng Wolf Title Persident Company Wolf Contracting, Inc.	Enclosure Integrity Test - D\EIT Program Published Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst* File Tools Reference Calculate Reterence Company Address 123 Main Street Address 123 Main Street Address 123 456-9766 Company Wolf Tale President Company Wolf Tote President Company Wolf Tale Pres
File Tools Reference Calculate Retext Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name Mr. Tom Bany Title Issan Car Title Ste manager Company Avi Town Fire Department Address 123 Main Street Any Town, 00928 Other Attendee 3 Name Mr. Jeny Wolf Phone 122456-9111 Image: Street Market Street Str	Pile Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checkist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L: Stan Carr Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Address 123 Main Street Any Town, 00328 Other Attendee 3 Phone 123-456-5766 Company Wolf Email scarr@anytownfd.org Title President Other Attendee 1 Other Attendee 4	Bit Enclose Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Justisdiction (AHJ) Other Attendee 2 Name Ll. Stan Car Title Title Inspector, Fire Prevention Division Company Company Ary Town Fire Department Address Address 123 Main Street Ary Town (J0928 Mit. Jonn 288 Phone 123 456-9111 Title Fax 123 456-9766 Title Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L: Stan Carr Title Inspector. Fire Prevention Division Company Arry Town Fire Department Address 123 Main Street Arry Town, 00528 Phone 123 456-9111 Fax 123 456-9766	Check and the optimization of the set	Bit Enclose the first of the bit of	Company Autority Encode the Cynty Authority Authority Autority Name L. Stan Car Title Inspector, Fire Prevention Division Company Avy Town Fire Depatment Address 123 Address 123 Phone 123 123 Stafe Phone 123 123 Stafe Phone 123 123 Stafe Phone 123 123 Stafe Title Inspector Marage IT Services Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
Company Andress Image 123 Company Andress Image 123 Company Andress Image 123 Company Andress Image 123 Company Compa	Pile Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checkist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L: Stan Carr Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Address 123 Main Street Any Town, 00328 Other Attendee 3 Phone 123-456-5766 Company Wolf Email scarr@anytownfd.org Title President Other Attendee 1 Other Attendee 4	Bit Enclose Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Justisdiction (AHJ) Other Attendee 2 Name Ll. Stan Car Title Title Inspector, Fire Prevention Division Company Company Ary Town Fire Department Address Address 123 Main Street Ary Town (J0928 Mit. Jonn 288 Phone 123 456-9111 Title Fax 123 456-9766 Title Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L: Stan Carr Title Inspector. Fire Prevention Division Company Arry Town Fire Department Address 123 Main Street Arry Town, 00528 Phone 123 456-9111 Fax 123 456-9766	Check and the optimization of the set	Bit Enclose the first of the bit of	Company Autority Encode the Cynty Authority Authority Autority Name L. Stan Car Title Inspector, Fire Prevention Division Company Avy Town Fire Depatment Address 123 Address 123 Phone 123 123 Stafe Phone 123 123 Stafe Phone 123 123 Stafe Phone 123 123 Stafe Title Inspector Marage IT Services Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
File Company Authority Having Jurisdiction (AHJ) Name It. Stan Car Title Inspector. File Prevention Division Company Ary Town. Rive Department Address 123 Main Street Ary Town. 00528 Other Attendee 3 Phone 122456-9111	Pile Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checkist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L: Stan Carr Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Address 123 Main Street Any Town, 00328 Other Attendee 3 Phone 123-456-5766 Company Wolf Email scarr@anytownfd.org Title President Other Attendee 1 Other Attendee 4	Bit Enclose Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Justisdiction (AHJ) Other Attendee 2 Name Ll. Stan Car Title Title Inspector, Fire Prevention Division Company Company Ary Town Fire Department Address Address 123 Main Street Ary Town (J0928 Mit. Jonn 288 Phone 123 456-9111 Title Fax 123 456-9766 Title Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L: Stan Carr Title Inspector. Fire Prevention Division Company Arry Town Fire Department Address 123 Main Street Arry Town, 00528 Phone 123 456-9111 Fax 123 456-9766	Check and the optimization of the set	Bit Enclose the first of the bit of	Company Autority Encode the Cynty Authority Authority Autority Name L. Stan Car Title Inspector, Fire Prevention Division Company Avy Town Fire Depatment Address 123 Address 123 Phone 123 123 Stafe Phone 123 123 Stafe Phone 123 123 Stafe Phone 123 123 Stafe Title Inspector Marage IT Services Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
File Company Authority Having Jurisdiction (AHJ) Name It. Stan Car Title Inspector. File Prevention Division Company Ary Town. Rive Department Address 123 Main Street Ary Town. 00528 Other Attendee 3 Phone 122456-9111	Pile Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checkist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L: Stan Carr Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Address 123 Main Street Any Town, 00328 Other Attendee 3 Phone 123-456-5766 Company Wolf Email scarr@anytownfd.org Title President Other Attendee 1 Other Attendee 4	Bit Enclose Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Justisdiction (AHJ) Other Attendee 2 Name Ll. Stan Car Title Title Inspector, Fire Prevention Division Company Company Ary Town Fire Department Address Address 123 Main Street Ary Town (J0928 Mit. Jonn 288 Phone 123 456-9111 Title Fax 123 456-9766 Title Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	File Tools Reference Calculate Retest Help General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L: Stan Carr Title Inspector. Fire Prevention Division Company Arry Town Fire Department Address 123 Main Street Arry Town, 00528 Phone 123 456-9111 Fax 123 456-9766	Check and the optimization of the set	Bit Enclose the first of the bit of	Company Autority Encode the Cynty Authority Authority Autority Name L. Stan Car Title Inspector, Fire Prevention Division Company Avy Town Fire Depatment Address 123 Address 123 Phone 123 123 Stafe Phone 123 123 Stafe Phone 123 123 Stafe Phone 123 123 Stafe Title Inspector Marage IT Services Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Name L: Stan Carr Other Attendee 2 Name L: Stan Carr Title Inspector. Fire Prevention Division Company Any Town Fire Department Other Attendee 3 Address 123 Main Street Any Town, 00928 Mare Mr. Tom Bany Phone 122456-9111 Mare Mr. Tom Wolf	General Protected Zone Pre-Test Checklist Test Graph Attendance Authority Having Jurisdiction (AHJ) Name L: Stan Car Other Attendee 2 Name L: Stan Car Title Ste manager Title Inspector. Fre Prevention Division Company XYZ On Line Services, Inc. Address 123 Main Street Amy Town, 00928 Other Attendee 3 Phone 123-456-59111 Title President Fax 123-456-6766 Company Wolf Email scarr@enytownfd.org Wolf Contracting, Inc. Other Attendee 1 Other Attendee 4	General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Name Li. Stan Car Other Attendee 2 Name Li. Stan Car Name Mr. Tom Bany Title Inspector, Fire Prevention Division Company Company Arry Town Fire Department Mr. Tom Bany Address 123 Main Street Arry Town, 00928 Mr. Jone Services, Inc. Phone 123 456-8766 Mr. Jone Wolf Email scarr@enytownfd.org Tile Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Name	General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Other Attendee 2 Name Lt. Stan Carr Imapector. Fire Prevention Division Mr. Tom Bamy Title Imapector. Fire Prevention Division Company Arry Town, Pre Depatment Address 123 Main Street Company Arry Town, 00928 Phone 123 456-9111 Mr. Jerry Wolf Fax 123 456-9766 Ompany	General Protected Zone Pre-Test Checklist Test Graph Attendance Lesk Survey Akthority Having Jurisdiction (AHJ) Name Lt. Stan Carr Name Mr. Tom Bany Title Inspector, Fire Prevention Division Company Ary Town, Rive Department Address 123 Main Street Ary Town, 00528 Mr. Tom Services, Inc. Phone 123 456 6766 Cher Attendee 3 Name Mr. Jeny Wolf Title scar@anytownfid.org Wolf Contracting, Inc. Other Attendee 4	General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Name Lt. Stan Car Name Mame Mr. Tom Bany Title Inspector. Fire Prevention Division Company Ary Town. Fire Department Company XYZ On Line Services. Inc. Address 123 Main Street Arry Town. 00928 Mine Mr. Jerny Wolf Title Phone 123-456-8766 Mame Mr. Jerny Wolf Title Company Email scar@enytowrfd org Volter Attendee 3 Mome Modelent Company Other Attendee 1 Name Mr. Jerny Wolf Modelent Modelent Name Mr. Jan Gates Other Attendee 4 Name Modelent	General Protected Zone Pre-Test Checklist Test Graph Attendance Leak Survey Authority Having Jurisdiction (AHJ) Name Lt. Stan Car Name M. Tom Bany Title Inspector. Fire Prevention Division Company Ary Town Fire Depatment Name M. Tom Bany Address T23 Main Street Ary Town, 00928 VirZ On Line Services, Inc. Company X/Z On Line Services, Inc. Phone 123 456-93111 Title President Company Wolf Fax 123 456-8766 Title President Company Wolf Title Manage IT Services Other Attendee 4 Name Name Title Title Name Mr. Jon Gates Title Title
Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L. Stan Carr Mr. Tom Bany Title Inspector, Fire Prevention Division Title Company Any Town Fire Department XYZ On Line Services, Inc. Address I23 Main Street Any Town, 00528 Mr. Tom Bany Phone 123:456-9111 Mr. Tom Wolf	Authority Having Jurisdiction (AHJ) Other Attendee 2 Name It. Stan Carr Title Inspector. Fire Prevention Division Company Ary Town Fire Department Address 123 Main Street Ary Town, 00328 Phone 123-456-9111 Fax 123-456-8766 Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4	Authority Having Jurisdiction (AHJ) Other Attendee 2 Name LL. Stan Car Title Inspector, Fire Prevention Division Company Ary Town Fire Department Address 123 Main Street Ary Town, 00928 Phone 123 456-9111 Fax 123 456-9766 Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Authority Having Jurisdiction (AHJ) Other Attendee 2 Name LL Stan Carr Title Inspector, Fre Prevention Division Company Company Arry Town Fire Department Address 123 Main Street Arry Town, 00928 Phone 123-456-9111 Fax 123-456-8766	Authority Having Jurisdiction (AHJ) Other Attendee 2 Name II. Stan Car Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Any Town, 00528 Phone 123-455-9111 Fax 123-455-8765 Email scar@anytownfid.org Other Attendee 1 Other Attendee 4	Authority Having Jurisdiction (AHJ) Other Attendee 2 Name L. Stan Carr Title Inspector, Fire Prevention Division Company Company Ary Town, Rive Department Address 123 Main Street Ary Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jemy Wolf Title Preadent Company Wolf Contracting, Inc.	Authority Having Jurisdiction (AHJ) Other Attendee 2 Name Ll. Stan Carr Name Title Inspector, Fire Prevention Division Company Company Ary Town Fire Depatment Address 123 Main Street Arry Town, 00928 Phone 123 456-9111 Fax 123 456-9766 Email scar@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
Name LL: Stan Car Title Inspector, Fire Prevention Division Company Arry Town Fire Department Address I23 Main Street Arry Town, 00928 Phone 123-456-9111	Name L. Stan Carr Title Inspector, Fire Prevention Division Company Arry Town Fire Department Address 122 Main Street Address 123 Main Street Phone 123-456-9111 Fax 123-456-8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4	Name Li. Stan Car Title Inspector, Fire Prevention Division Company Ary Town Fire Department Address 123 Main Street Ary Town, 03928 Phone 123 456-9111 Fax 123 456-8766 Email scare@arytowrfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Name L. Stan Carr Title Inspector. Fire Prevention Division Company Any Town. Fire Department Address 123 Main Street Any Town. 00928 Phone 123-456-9111 Fax 123-456-8766	Name L. Stan Carr Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Any Town, 00528 Phone 123-456-8766 Email scar@enytownfid.org Other Attendee 1 Other Attendee 4	Name L. Stan Carr Title Inspector. Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-9766 Email scarr@arrytowrfd.org Other Attendee 1 Name Name Mr. Jenny Wolf Title President Company Wolf Contracting, Inc.	Name L. Stan Car Title Inspector. Fire Prevention Division Company Arry Town Fire Department Address Tata Main Street Address Tata Main Street Phone 123-456-9111 Fax 123-456-9766 Email scare@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
Name Lt. Stan Car Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 23 Main Street Any Town, 00528 Phone 123-456-9111 Other Attendee 3 Name Name	Name Lt. Stan Car Title Inspector. Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4	Name LL. Star Car Title Inspector, Fire Prevention Division Company Ary Town Fire Department Address T23 Main Street Ary Town, 00928 Phone 123 456-9111 Fax 123 456-9766 Email scarr@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Name L: Stan Car Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Company Wolf Other Attendee 3 Name Mr. Jeny Wolf Title President Company Wolf Contracting, Inc.	Name L: Stan Car Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Any Town, 00528 Phone 123-456-8766 Email scar@anytownfid.org Other Attendee 1 Other Attendee 4	Name II. San Car Title Inspector. Fire Prevention Division Company Arry Town. Fire Department Address 123 Main Street Arry Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scar@enytowrfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jenn Gates	Name Lt. Stan Car Ttle Inspector. Fire Prevention Division Company Ary Town Fire Department Address 123 Main Street Ary Town, 00928 Phone 123 456-9111 Fax 123 456-8766 Email scare@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Ttle Manage IT Services
Tile Inspector. Fire Prevention Division Company Arry Town Fire Department Address 123 Main Street Arry Town, 0928 Phone 122-456-9111	Title Inspector, Fire Prevention Division Company Any Town Fire Department Address 123 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4	Title Inspector, Fire Prevention Division Company Ary Town Fire Department Address 123 Main Street Ary Town, 00928 Phone 123 456-9111 Fax 123 456-8766 Email scarr@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Title Inspector. Fire Prevention Division Company Arry Town. Fire Department Address 123 Main Street Any Town. 00928 Phone 123-456-9111 Fax 123-456-8766 Other Attendee 3 Name Mr. Jeny Wolf Title President Company Wolf Contracting. Inc.	Title Inspector, Fire Prevention Division Company Any Town, Fire Department Address 123 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scar@anytownfid.org Other Attendee 1 Other Attendee 4	Title Inspector, Fire Prevention Division Company Arry Town, Fire Department Address 123 Main Street Arry Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scar@enytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jemy Wolf Other Attendee 1 Other Attendee 4	Title Inspector, Fire Prevention Division Company Ary Town Fire Department Address 123 Main Street Ary Town, 00928 Phone 123 456-9111 Fax 123 456-8766 Email scare@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
Company Ary Town Fire Department Address 123 Main Street Ary Town, 00928 Phone 123 456-9111	Company Any Town Fire Department Address 123 Main Street Any Town, 00328 Phone 123-456-9111 Fax 123-456-8766 Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4	Company Ary Town File Department Address 123 Main Street Ary Town, 00928 Phone 123 456-9111 Fax 123 456-9765 Email scarr@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Company Ary Town Rie Department Address 123 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Company Wolf Contracting, Inc.	Company Any Town Fire Department Address 123 Main Street Any Town, 00528 Phone 123-456-9111 Fax 123-456-9766 Email scar@anytownfid.org Other Attendee 1 Other Attendee 4	Company Any Town. Fire Department Address I23 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jemy Wolf Other Attendee 1 Other Attendee 4	Company Ary Town File Department Address 123 Main Street Arry Town, 00928 Phone 123 456-9111 Fax 123 456-8766 Email scare@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
Address 123 Main Street Ary Town, 00928 Other Attendee 3 Name Mr. Jeny Wolf	Address 123 Main Street Any Town, 00928 Phone 123456-9111 Fax 123456-8766 Email scam@enytownfid.org Other Attendee 1 Other Attendee 4	Address 123 Main Street Ary Town, 00928 Phone 123 456-9111 Fax 123 456-8766 Email scarr@arytowrfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Address 123 Main Street Any Town, 00928 Other Attendee 3 Other Attendee 3 Name M. Jeny Wolf Title President Title President Company Wolf Contracting, Inc.	Address 123 Main Street Any Town, 00928 Phone 123.456.9111 Fax 123.456.8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4	Address 123 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scam@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jenry Wolf Contracting, Inc.	Address 123 Main Street Any Town, 00928 Phone 123-456-9111 Fax 123-456-8766 Email scar@erytowrfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
Any Town, 00928 Other Attendee 3 Phone 123-456-9111	Any Town, 00928 Phone 123456-9111 Fax 123456-8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4	Any Town, 00928 Phone 123456-9111 Fax 123456-8766 Email scare@anytowrfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Any Town, 00928 Other Attendee 3 Phone 123-456-9111 Fax 123-456-8766 Company Wolf Contracting, Inc.	Any Town, 009328 Phone 123-456-9111 Fax 123-456-8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4	Any Town, 00928 Other Attendee 3 Phone 123456-9111 Fax 123456-8766 Email scam@arytownfd org Other Attendee 1 Other Attendee 4 Name Mr. Jen y Wolf	Any Town, 00928 Phone 123456-9111 Fax 123456-8766 Email scar@arytownfd.org Other Attendee 1 Name Mr. Jon Gates Title Manage IT Services
Phone 123456-9111 Name Mr. Jeny Wolf	Phone 123-456-9111 Fax 123-456-3766 Email scarr@arytowrfd.org Other Attendee 1 Other Attendee 4	Phone 123-456-9111 Mr. Jeny Wolf Fax 123-456-8766 Tile President Email scarr@arytowrfd.org Wolf Contracting, Inc. Other Attendee 4 Name Mr. Jong Gates Other Attendee 4 Name	Phone 123-456-9111 Name Mr. Jeny Wolf Fax 123-456-9766 Ttile President Company Wolf Contracting, Inc. Company	Phone 123-456-9111 Fax 123-456-9766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4	Phone 123-456-9111 Fax 123-456-8766 Email scar@enytownfd.org Other Attendee 1 Other Attendee 4 Name Mame	Phone 123456-9111 Name Mr. Jerry Wolf Fax 123456-8766 Ttle President Email scam@arytownfd.org Wolf Contracting. Inc. Other Attendee 1 Other Attendee 4 Name Name Mr. Jon Gates Ttle Ttle Ttle Manage IT Services Ttle Ttle
Phone 123-456-9111	Phone 123-456-9111 Fax 123-456-8766 Email scar@anytowrfid.org Other Attendee 1 Other Attendee 4	Phone 123-456-9111 Fax 123-456-8766 Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Phone 123-456-9111 Title President Fax 123-456-8766 Company Wolf Contracting, Inc.	Phone 123456-9111 Fax 123456-9766 Email scar@arytownfd.org Other Attendee 1 Other Attendee 4	Phone 123-456-9111 Fax 123-456-8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Phone 123456-9111 Fax 123456-8766 Email scar@arytownfd.org Other Attendee 1 Wolf Contracting, Inc. Name Mr. Jon Gates Other Attendee 4 Title Manage IT Services Title
	Fax 123456-8766 Email scar@anytowrfid.org Other Attendee 1 Other Attendee 4	Fax 123456-8766 Email scarr@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Fax 123-456-8766 Company Wolf Contracting, Inc.	Fax 123-456-8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4	Fax 123-456-8766 Email scar@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mame	Fax 123-456-8766 Email scar@arytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services
Fax 123-456-8766	Email scarr@arytowrid.org Other Attendee 1 Other Attendee 4	Email scar@arytowrfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates		Email scarr@arytowrfd.org Other Attendee 1 Other Attendee 4	Email scarr@arytowrfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates	Email scan@anytownfd.org Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Name Title Manage IT Services Title
Company Wolf Contracting, Inc.	Other Attendee 1 Other Attendee 4	Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Name		Other Attendee 1 Other Attendee 4	Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Name	Other Attendee 1 Other Attendee 4 Name Mr. Jon Gates Title Manage IT Services Title Title
		Name Name			Name Mr. Jon Gates Name	Name Mr. Jon Gates Name Title Manage IT Services Title
Other Attendee 1 Other Attendee 4	Name Mr. Jon Gates Name		Other Attendee 1 Other Attendee 4	Name Mr. Jon Gates Name		Title Manage IT Services Title
Name Mr. Jon Gates Name			Name Mr. Jon Gates Name		Title Manage IT Services Title	
Title Manage IT Services Title	Title Manage IT Services Title	Title Manage IT Services Title		Title Manage IT Services Title		
		Company XY2 On Line Services Company	Title Manage IT Services Title		Company XYZ On Line Services Company	Company XYZ On Line Services Company
Company XYZ On Line Services Company	Company XYZ On Line Services Company			Company XYZ On Line Services Company		

Attendance

Add the names of individuals who are present at the test, including any company employees that may be assisting the testing technician. These names will be printed in the test report.

Note: It is recommended that the Enclosure Integrity Test Data Form is used to make a hard copy of the test data in case there is a computer problem and loss of the test data.

It is easy to pass around the last page of the Data Form and have the individuals fill in their names and company.



_			Quick Test 1 Screen 8, Leak Survey	
Enclosure	e Integrity Test - [):\EIT Program Publis	hed Versions warthog\1.0.0.15\FST V1.0.0.15\Demo Test.fst*	- 1
File Tools Reference Calcula	1	Attendance Leak Survey		
General Protected Zone Pre-Test Chec Walls floor to deck?	Corrected	Yes v		1
Walls caulked at floor?		Yes] []	1
Walls caulked at deck?				
Doors weather-stripped?	Corrected	Partially v] [::::::::::::::::::::::::::::::::::::	
Doors, drop seals?	Corrected	Yes 🗸		4
	Corrected	Yes 🗸	Metal thresholds to be installed	
Door closers installed and adjusted?	Corrected	Yes 🗸]
Windows Caulked	Corrected	None 🗸]
Exiting conduits sealed?	Corrected	Reported Yes 🗸 🗸		
Exiting cables sealed?	Corrected	Reported Yes 🗸 🗸		
Cable trays sealed?	Corrected	None 🗸]
All holes, penetrations sealed?	Corrected	Yes 🗸		1
E 1	Corrected	None 🗸		1
Floor drains trapped and filled?		Reported Yes V		1
Dampers installed on all exiting ducts?	Corrected			
		Beported Yes		
Dampers installed on all exiting ducts?	Corrected	Reported Yes V		

Leak Survey

If the zone does not meet the required hold time it is due to too much leakage. The tester can by both observation based on his experience and by using the door fan and smoke help identify the leakage areas.

The survey form list the most common leakage areas with room for comments.

The completed form can be very helpful for the owner and/or contractor.

If the owner and/or contractor has not already received a copy of "Sealing of Rooms for Containment of Fire Suppression Agents" a copy should be included with the test report.

Again it is recommended that the above survey is completed manually on the Test Data Form and copied into the computer form later.



	Toolbar: File, Tools
Enclosure Integrit	y Test - D:\EIT Program Published Versions warthog\1.0.0.15 B 2.0\Sample
File Tools Reference Calculate General Protected Zone Pre-Test Checklist	Retest Help t Test Graph Attendance Leak Survey
Test Information	
aking it easy to learn and use.	the very familiar standard Windows format including a toolbar
File Tools Reference New Ctrl+N Recent + Open Ctrl+O	File The standard Windows functions New, Open, Close, Save, Save As, Print, Exit.
Close Ctrl+W Save Ctrl+S Save As Print Ctrl+P Exit Ctrl+X	Also included is Recent, useful in quickly finding
Tools Reference Calculation Preferences Install License Spell Check Install Check Agent Percent Calculator	 desired units and adding standard comments to the comment field. Install License F7 Only used is moving program from one folder to another or changing computers.

			Zuick Test	
			and Taples Dusfam	~ ~ ~ ~ ~
		1001	bar Tools>Prefere	ences
🚦 Encl	losure Integrity Test	- D:\EIT Progra	m Published Versions warthog\1.0.0.	.15 B 2.0\Sample
File Tools Referen	nce Calculate Retest	Help		
General Protected Zone	Pre-Test Checklist Test	Graph Attendan	ice Leak Survey	
Test Information				
		Prefe	erences	
Default Sav Default Tes			erences Browse	
	st Standard NFPA 2001:2012 Clear recent files from	menu	Browse	
p Default Tes	st Standard NFPA 2001:2012 Clear recent files from		Browse	set rock wall
p Default Tes	t Standard NFPA 2001:2012 Clear recent files from i Set All Standard h0t	menuSet All MetricFeet	Predefined Text Remove the vinyl cove molding and vacuum and caulik the she	reet rock wall
: Default Tes groupBox Length Area	at Standard NFPA 2001:2012 Clear recent files from recent file	menu Set All Metric	Predefined Text Predefined Text Remove the viryl cove molding and vacuum and caulk the she to floor joint the entire perimeter of the zone. Install proper jam mounted weather stripping on door. Install and adjust jirop seal (automatic seal) on door.	reet rock wall
c Default Tes groupBox Length	at Standard NFPA 2001:2012 Clear recent files from recent file	menu Set Al Metric Feet ft ²	Predefined Text Predefined Text Remove the vinyl cove molding and vacuum and caulik the she to floor pirst the entire perimeter of the zone. Install proper jam mounted weather stripping on door. Install and adjust jkrop seal (automatic seal) on door. Seal windows and frames with clear silicone caulik. Install motorized dampers on all HVAC supply and return ducts.	
c Default Tes groupBox Length Area Volume	xt Set All Standard NFPA 2001:2012 Clear recert files from r Clear recert files from r x1 Set All Standard h 0 ft 0 ft 0 ft ² ue 0 ft ² 0 min 0 min ure 0 pa	menu Set Al Metric Feet ft ² ft ³ Minute Pascal	Predefined Text Predefined Text Remove the winyl cove molding and vacuum and caulik the shet to floor pirit the entire perimeter of the zone. Install proper jam mounted weather stripping on door. Install and adjust jkrop seal (automatic seal) on door. Seal windows and frames with clear silicone caulik. Install motorized dampers on all HVAC supply and return ducts. connect to fire suppression panel to close prior to discharge.	s and
proupBox groupBox Length Area Volume Time Pressu Row	xt Standard NFPA 2001:2012 Clear recert files from recert file	menu Set All Metric Feet ft ² ft ³ Minute Pascal ft ³ /min	Predefined Text Predefined Text Remove the vinyl cove molding and vacuum and caulik the she to floor pirst the entire perimeter of the zone. Install proper jam mounted weather stripping on door. Install and adjust jkrop seal (automatic seal) on door. Seal windows and frames with clear silicone caulik. Install motorized dampers on all HVAC supply and return ducts.	s and
groupBox groupBox Length Area Volume Time Pressu	xt Set All Standard NFPA 2001/2012 Clear recent files from in Clear recent files from in xt Set All Standard h 0 ft 0 ft 0 ft 0 min 0 ft 0 cfm 0 cfm tt 0 pa	menu Set Al Metric Feet ft ² ft ³ Minute Pascal	Predefined Text Predefined Text Remove the viryl cove molding and vacuum and caulk the she to floor joint the entire perimeter of the zone. Install proper jam mounted weather stripping on door. Install and adjust jkrop seal (automatic seal) on door. Seal windows and frames with clear silicone caulk. Install motorized dampers on all HVAC supply and return ducts. Connect to fire suppression panel to clear pirot discharge. Remove all tempoary sealing applied during test (plastic sheetin	s and

Tools>Preferences

Default Save Location: Normally the program will save your test files in the same folder as the program. If you wish to same the test files in a different folder you may select it here.

Default Test Standard: You may set your preferred test standard here. You may always change it for a specific test requirement in the **General** screen.

Clear recent files from the menu: Click this button to clear the files that come up when **Recent** is selected in **File.**

Group Box 1: The program may be run in many different units, metric, standard (also known as Imperial or SAE) or a mix of units depending on your preference. You may Set all Standard or Set all Metric by clicking on the button or you may select or change an individual unit.

Lock unit of measurement [Important]: Once you have selected your preferred units check this box (or uncheck if you need to change the units). If this is not checked you may inadvertently change the units while working in the program and not realize it.

Predefined Text: We have included standard comments which we have often needed to include in the test report. You may add any of these to your report by double clicking on the comment. You may also add your own standard comments (boiler plate) which will appear in Screen 4 and may be double clicked to add them to the comment field.

Apply and Save: Click this button after any changes of units or Predefined Text.





Calculate

Test Checklist

Calculate: Forces a recalculation of the hold time. Whenever there is new data or a change of data entered the program recalculates. However sometimes it may seem that there was no recalculation. Clicking on Calculate forces a recalculation







Special Notes

Suspended Ceiling Leakage Neutralization (Below Ceiling Leakage Area-BCLA)

Test Type				
	Standard Total Zone Leakage			
	 Suspended Ceiling Leakage Neutralization (Below ceiling leakage - BCLA) 			

Test Type: In screen 3, Protected Zone, Test Type you have the choice between Standard Total Zone Leakage and Suspended Ceiling Leakage Neutralization (Below Ceiling Leakage Area-BCLA)

Almost all tests are "Standard Total Zone Leakage", that is we test the entire zone high and low for leakage.

The Suspended Ceiling Leakage Neutralization (Below Ceiling Leakage Area– BCLA) test is a special test used in cases where there is excessive above ceiling leakage areas, for example in a case where the side wall do not go to the over head deck and there is an open plenum covering the entire building area or where the walls do go to the overhead deck but are not sealed at the deck and/or there are above ceiling holes in the side walls.

We know that the gases are heavy and leak out of the lower leakage areas. In calculating hold time the standard procedure assumes that half of the found leakage area is high and half is low. The size of the low leakage area and the weight of the gas/air mixture determines the rate of leakage.

However when we test a zone with a drop ceiling and an open plenum the found leakage area is not half high and half low but normally the high leakage area is much greater than the low leakage area.

In order to correct for this difference there is a special test procedure.

First we test the zone in the normal way with all ceiling tiles in place.

Second we cover the ceiling with plastic sheeting and retest the zone (the BCLA test) The program then calculates the hold time.

After selecting the Suspended Ceiling Leakage Neutralization (Below Ceiling Leakage Area-BCLA) option when you select the **Test** tab you will see data fields for both tests.

For more information NFPA 2001/ 2004 C.2.6.2 or NFPA 2001/2012, 2015 C.2.7.2



NFPA 2001/2004 BCLA Test

Enclosu	ire Integrity Test - D:	EIT Program Published	/ersions warthog\1.0.	0.15 B 2.0\Sa	mple Test R	eport\Demo Test.f:
File Tools Reference		lelp				
General Protected Zone Pre		aph Attendance Leak Survey	Temperature		Hold Time	
		c) Pressure -1.3 pa	Inside Zone 68 F		Predicted retention time	
Air is blowing () into zon		ving () into zone	Outside Zone	68 F	At minimum protected height of	
 Out of zo 	one	O out of zone			Equivalent Leakage Area	
Depressurization		Cappet Beach 50PA				
Target Pressure	-10pa (Total leakage)	-50pa (Total leakage)	-10pa (BCLA)	-50pa (B)		-N/A
Measured Pressure	0 pa	0 pa	0 pa		0 pa	0 pa
Measured Row	0 cfm	0 cfm	0 cfm		0 cfm	0 cfm
Row Ring	~	~	¥		~	
Equiv. Leakage Area	0 ft²	0 ft²	0 ft²		D ft²	0 ft ²
Pressurization						
Target Pressure	10pa (Total leakage)	50pa (Total leakage)	10pa (BCLA)	50pa (BC	1 A)	N/A
-	0 pa	0 pa	0 pa		0 pa	0 pa
Measured Pressure	0 cfm	0 cfm	0 cfm		0 cfm	0 cfm
Measured Row						U Chin
Row Ring	×	~	~		~	``````````````````````````````````````
Equiv. Leakage Area	0 ft ²	0 ft²	0 ft²		D ft²	0 ft ²

NFPA 2001/2012,2015 BCLA TEST





Special Notes

Bias (Static) Pressure:

The bias or also known as static pressure is the pressure acting on the zone, that is pressure or de-pressure out side the zone. This may be due to building HVAC systems, possibly due to an unbalanced system creating a negative or positive pressure in the area outside the zone, or wind effect on the building, a special lab or kitchen exhaust located near the protected zone or even fluctuations of air pressure due to the elevators.

Excessive bias pressure could shorten the predicted hold time by sucking or forcing out the gas/air mixture at an accelerated rate. By code the bias pressure must not exceed 25% of the pressure created in the zone by the gas/air mixture, the target pressure in NFPA 2001/2004 (and is calculated with warnings in EIT Quick Test Intl for NFPA 2001/2012, 2015).

The NFPA 2001 Enclosure Integrity Test Procedure has always required measurement of the bias pressure. See "Conducting an Enclosure Integrity Test, Photo Summary" photo 30, and "Conducting a NFPA 2001 Enclosure Integrity Test, Part 2"

The test procedure always required the zone and the area to be in the expected discharge condition when the test is conducted. The test is conducted with dampers, HVAC, doors, etc. in the discharge state, but beyond these items it is of course impossible for the tester to accurately predict the state of the zone or surrounding area at the time of an emergency.

The exception to this is in the case where we have opened a normally closed door to an adjoining room in order to obtain a free return air path during the test. Therefore in such case measure the bias pressure with the door closed, then open it for the test.

If the underfloor is pressurized at discharge (HVAC system on) then measure bias (static) pressure between the underfloor and the area outside the protected zone with HVAC on.

NFPA 2001/2012 and 2015 require the entry of both the bias pressure at discharge condition and at test condition. Unless there is a situation with an adjoining zone enter the normally measured bias pressure for both the discharge and at test condition.

See below C.2.6.2 from NFPA 2001/2012,2015

C.2.6.2 Bias Pressure Measurement.

C.2.6.2.1 Bias pressures are the background pressures that exist in the enclosure when the fan is stopped and sealed. Bias pressure must be measured or estimated for two different conditions. The first condition (which can always be measured) is the bias pressure present during the actual enclosure integrity test (P_{bb}) . The second condition (which may need to be estimated) is the bias pressure expected after discharge, during the hold time (P_{bb}) . To measure bias pressure, seal the fan opening with the door fan properly installed but without the fan operating. Dobserve the room pressure gauge for at least 30 seconds. Look for minor fluctuations in pressure. Determine the flow direction with smoke or other indicating method.

C.2.6.2.2 With the room set up as it would be under hold time conditions, measure the bias pressure P_{bh} across a section of envelope containing the largest quantity of leaks expected to leak clean agent. If the subfloor is pressurized during the

hold time, measure the differential between the subfloor and outside the envelope. If the room cannot be set up as would be under discharge conditions, P_{bh} will need to be estimated.

C.2.6.2.3 With the room set up for the room integrity test, measure the bias pressure P_{bt} . If P_{bt} has an absolute value greater than 25 percent of the column pressure calculated in C.2.7.1.4, it must be permanently reduced. Large bias pressures decrease the level of certainty inherent in this procedure. The most common causes of excessive bias pressure are leaky dampers, ducts, and failure to shut down air-handling equipment serving the enclosure.

C.2.6.2.4 Record the position of all doorways, whether open or shut, when the bias pressure P_{bh} is measured.





Special Notes

Continuous Mixing:

It is normally recommended that all HVAC systems, computers, UPS equipment, switch gear etc. in the protected zone be shut down (de-powered) prior to discharge of the fire suppression gas. It is easy to understand that in case of a fire emergency shutting down this equipment this would minimize the risk of damage to the equipment and minimize the risk of re-ignition. There have been cases in which the HVAC / air handlers have been the source of smoke setting off the fire suppression system.

However some owners demand that the equipment and in particular the HVAC system is not shut down. In such cases because the air handlers are operating and moving air in the zone one has a situation referred to as "continuous mixing" of the suppression gas / air mixture. This is different from the standard discharge condition where the interface of the gas / air mixture is falling in the zone at a predictable rate. Briefly with "continuous mixing" there is a loss of the gas / air mixture out of the lower leakage areas but due to the mixing action of the air handlers the percentage of the suppression gas in the whole zone decreases. For this condition the calculation of the "hold time" is different from the standard Enclosure Integrity Test Procedure. We actually need to calculate the time lapse, "hold time" until the falling concentration reaches the minimum acceptable concentration.

NFPA 2001 /2012, 2015 5.6 and C.2.8.1.5 requires a minimum of 85% of the design concentration be held in the zone for 10 minutes.

If you have a zone with a continuous mixing then In the Protected Zone Screen, Hold Time Condition click Continuous Mixing. EIT Quick Test Intl. will then calculate the hold time using the Minimum (Allowable) Concentration.

