

2020 Connecticut State Building and Fire Codes

Find the most current schedule at <https://portal.ct.gov/DASCodeChange>

Completed: 2020 Amendments Drafted and Code Change Proposals Received





NFIRS: A Review of the Rules for the Basic Module

Fall 2019 Career Development Series

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DAS Office of Education and Data Management



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Scope

This seminar has been developed to provide the Connecticut Fire Service with training to complete required documentation with improved accuracy.

Objectives

Upon completion of this training session, students will be able to:

- Explain how the need to collect fire data led to the organization and development of NFIRS
- Describe the benefits of using NFIRS
- Demonstrate how to complete the basic module correctly

Participants should return to their respective departments with the ability to identify areas within their organizations where NFIRS is being used incorrectly and implement corrective actions.

Introduction

❖ DJ Jordan

- State of Connecticut – DAS
 - Office of Education and Data Management
- Cromwell Fire Department (2002 – Present)
- United Technologies – Hamilton Sundstrand (2005 – 2010)
- Westfield Fire District – Middletown, CT (2010 – 2016)

- NFIRS State Program Manager – October 2018

History

- ❖ 1972 - America Burning published
 - Published by Commission of Fire Prevention and Control
 - First In-depth discussion of the nation's fire problem
- Recommendations
 - Help place solutions to the fire problem on a firmer foundation of scientific data
 - Establishment of a National Fire Data System
 - 1976 - six states piloted a program and it has evolved into what we today know as NFIRS

Incident Reporting

- ❖ Three basic purposes for incident reporting:
 1. Legal Record that a fire or other incident occurred
 2. Provides information to senior officials
 3. Ability to collect data that is useable at the State and National Level

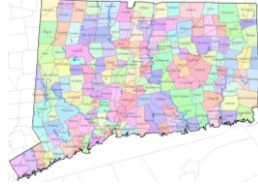
Incident Reporting - Who uses the data



Incident Reporting – Who uses the data

❖ State Level:

1. State Budgets
2. Creation of Laws
 - Sprinkler Laws
 - Fireworks
 - Arson



Incident Reporting – Who uses the data

❖ Local Level:

1. Developing priorities and targeting resources
2. Design of fire prevention and educational programs



Incident Reporting

- ❖ Are local fire departments required to report incidents?
➤ YES!

1. CT Statute 29-303

[CT General Statutes 29-303](#)

CT Statute 29-303

❖ Fire Chief or Fire Marshal, where a fire, explosion, or other fire emergency occurs shall furnish the SFM a report that shall include

1. All facts relating to cause, origin, kind, estimated value and ownership of property damaged/destroyed
2. The name of each firefighter who was present and exposed to heat, radiation or other known or suspected carcinogen as a result of such fire, explosion, or other fire emergency
3. Such other information as called for by the State Fire Marshal on forms furnished by the SFM or in electronic format prescribed by the SFM

When To Report

❖ Each time a fire service unit moves in response to an alarm, the Basic Module (NFIRS-1) must be completed.

Emergency calls

Report

- All fires
- Vehicle accidents
- EMS and rescue incidents
- Hazardous materials incidents
- Severe weather emergencies
- Overpressure ruptures / Explosions
- False alarms / False calls

Nonemergency calls

Report

- Service calls
- Good intent calls
- Smoke detector installations
- Community paramedicine

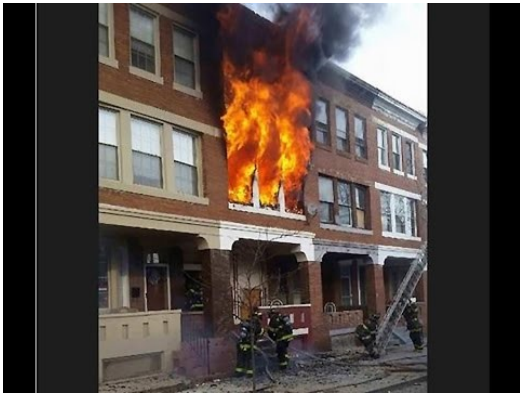
When To Report

❖ While NFIRS does capture some non-emergency incidents, such as service calls, you should not use the NFIRS report to document scheduled events such as parades, code inspections, department training and standby at sporting events

Do not report

- Parades
- Training
- Fire prevention events
- Stand by at sporting events
- Code inspections







Basic Module: Section B

Section B: Location

Location Type <input type="checkbox"/> <small>Check this box to indicate that the address for this incident is provided on the Wildland Fire Module in Section 5. Alternative Location Specifications * Use only for wildland fires.</small>		Census Tract	
<input type="checkbox"/> Street address			
<input type="checkbox"/> Intersection	Number/Street	Prefix	Street or Highway
<input type="checkbox"/> In front of			
<input type="checkbox"/> Rear of			
<input type="checkbox"/> Adjacent to			
<input type="checkbox"/> Directions	Appt./Subdivision	City	State ZIP Code
<input type="checkbox"/> US National Grid	<small>Enter Street, Direction or National Grid, as applicable.</small>		

- ❖ This section provides fields to identify the specific location and vicinity (in front of, rear of, next to) information pertaining to an incident. "Location" is a required section, so as much information as possible should be entered.

Basic Module: Section B – Census Tract

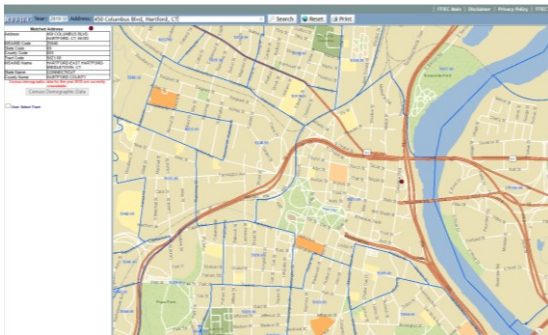
Section B: Location

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<input type="checkbox"/> Street address			
<input type="checkbox"/> Intersection	Number/Street	Prefix	Street or Highway
<input type="checkbox"/> In front of			
<input type="checkbox"/> Rear of			
<input type="checkbox"/> Adjacent to			
<input type="checkbox"/> Directions	Appt./Subdivision	City	State ZIP Code
<input type="checkbox"/> US National Grid	<small>Enter Street, Direction or National Grid, as applicable.</small>		

- ❖ This element provides a means to cross-reference geographic and population information that is available from the U.S. Census Bureau to incident data for comparative analysis.

<https://geomap.ffiec.gov/FFIECGeocMap/GeocodeMap1.aspx>

Basic Module: Section B



Basic Module: Section C

Section C: Incident Type

C Incident Type ☆
[] [] []
Incident Type

- ❖ Enter the type of incident (a three-digit code) to better identify the types of incidents to which fire departments respond.
 - ✓ Rule: The code should reflect the situation found at the scene, not what you were dispatched to

Basic Module: Section C

Section C: Incident Type

C Incident Type ☆
[] [] []
Incident Type

- | | |
|---|--|
| 100 Series: Fires; | 500 Series: Service Calls; |
| 200 Series: Pressure Ruptures (no fire); | 600 Series: Good Intent Calls; |
| 300 Series: Rescue and EMS; | 700 Series: False Alarms and False Calls; |
| 400 Series: Hazardous Conditions (not a fire) | 800 Series: Severe Weather and Natural Disasters |
| | 900 Series: Other Types of Incidents |



Scenario: Incident Type - Reporting



111: Building Fire



Scenario: Incident Type - Reporting



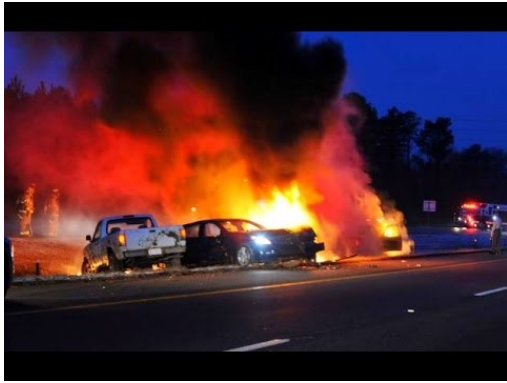
113: Cooking fire involving the contents of a cooking vessel without fire extension beyond the vessel.



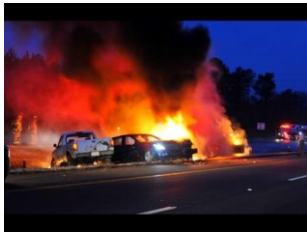


Scenario: Incident Type

- Ansonia Fire Department is dispatched to Route 8 North for a vehicle leaking gasoline. Vehicle is in the breakdown lane on the right side.
- While units are responding, dispatch advises the responding companies that the vehicle has been struck and the assignment was being upgraded to a Motor Vehicle Accident.
- Upon arrival, this is what you have...



Scenario: Incident Type - Reporting



131: Passenger Vehicle Fire.





- 121: Fire in a mobile home used as a fixed residence.
- If the RV was in transit....use code 136.

Basic Module: Section E

Block E1: Dates and Times

E1 Dates and Times		Messages in 2020			
Check boxes if dates are the same as Alarm					
	Alarm	★	Month	Day	Year Hour Min
<input type="checkbox"/>	Arrival	★			
<input type="checkbox"/>	Controlled				
<input type="checkbox"/>	Last Unit Cleared				

- Alarm: Actual Time the Fire Department was notified
- Arrival: Actual time the first responding unit arrived
- Controlled: Actual time when fire is under control or the incident is stabilized and does not require additional resources
- Last Unit Cleared: Actual time the last unit cleared the incident scene

Basic Module: Section E – Last Unit Cleared

E1 Dates and Times		Messages in 2020			
Check boxes if dates are the same as Alarm					
	Alarm	★	Month	Day	Year Hour Min
<input type="checkbox"/>	Arrival	★			
<input type="checkbox"/>	Controlled				
<input type="checkbox"/>	Last Unit Cleared				

Last Unit Cleared Date and Time

This is the actual month, day, year and time of day when the last unit cleared the incident scene.

These fields do not reflect an "in service" time, nor do they include the time spent transporting a patient to a hospital facility or transit back to the station.

If the Last Unit Cleared Date is the same as the Alarm Date, the report writer can check the box, "Date Same as Alarm."

Basic Module: Section F

Section F: Actions Taken

- In this section you will enter a two-digit code to explain the most significant actions taken by the fire service personnel at the incident scene.
 - ✓ Rule #1: The Primary Action taken is the most significant action taken by the fire department (use the code with the lowest value).
 - ✓ Rule #2: When cancelled enroute, enter code 93; Incident Type must be 611

Basic Module: Section G1

Block G1: Resources

- The total complement of fire department personnel and apparatus (suppression, EMS, other) that responded to the incident. This includes all fire and EMS personnel assigned to the incident whether they arrived at the scene or were canceled before arrival

Basic Module: Section G2

Block G2: Estimated Dollar Losses and Values

- Estimates of the total property and contents dollar loss and the pre-incident value of the property and contents.
 - An estimate of the property and contents dollar loss is required for all fires where the value is known.
- Losses: Rough estimation of the total loss to the structure and contents, in terms of the cost of replacement in like kind and quantity. This estimation of the fire loss includes contents damaged by fire, smoke, water, and overhaul. This does not include indirect loss, such as business interruption.
- Pre-incident Value: Estimation of the replacement cost of the structure and contents

ICC - Building Valuation Data

Square Foot Construction Costs ***

Group (2018 International Building Code)	IA	IB	IIA	IBB	IIIA	IIIB	IV	VA	VB
A.1 Assembly, theater, with stage	246.61	238.60	232.82	223.18	209.86	203.80	216.12	191.69	184.68
A.1 Assembly, theater, without stage	225.65	217.54	211.85	202.22	189.15	183.09	195.16	179.58	163.79
A.2 Assembly, explosives	191.96	186.56	182.12	174.70	164.84	160.39	168.64	149.29	144.33
A.2 Assembly, restaurants, bars, banquet halls	150.96	145.56	140.12	132.70	122.84	119.30	127.64	117.29	114.33
A.3 Assembly, churches	206.69	218.58	212.89	203.26	191.60	185.54	195.20	173.43	166.24
A.3 Assembly, general, community halls, libraries, museums	190.63	182.52	176.84	167.20	153.89	148.87	160.14	134.97	128.78
A.4 Assembly, arenas	224.65	216.54	209.85	201.22	187.15	182.09	194.91	168.98	162.78
B Business	197.81	190.62	184.70	175.70	160.65	154.63	168.95	141.55	134.99
E Educational	209.43	202.23	196.97	188.01	175.28	166.43	181.55	153.68	148.70
F.1 Factory and industrial, moderate hazard	117.60	112.19	105.97	101.84	91.44	87.26	97.61	75.29	71.86
F.2 Factory and industrial, low hazard	116.60	111.19	105.07	100.84	91.54	86.26	96.61	75.29	69.95
H.1 High Hazard, explosives	159.99	154.58	99.35	84.22	85.14	79.87	89.99	68.89	N.P.
H.2 High Hazard	109.99	104.58	99.35	84.22	85.14	79.87	89.99	68.89	63.56
HCS/HPH	197.81	190.62	184.70	175.70	160.65	154.63	168.95	141.55	134.99
I.1 Institutional, supervised environment	197.83	191.05	185.12	177.91	163.28	158.81	178.06	146.58	142.33
I.2 Institutional, hospitals	330.92	323.73	317.81	308.81	292.72	N.P.	302.66	273.22	N.P.
I.2 Institutional, nursing homes	278.68	272.49	266.58	257.57	193.53	N.P.	200.63	174.62	N.P.
I.3 Institutional, retirement	224.86	217.67	211.75	202.75	188.86	181.94	196.00	169.45	161.29
I.4 Institutional, day care facilities	197.83	191.05	185.12	177.91	163.28	158.81	178.06	146.58	142.33
M Manufacture	142.95	137.54	132.11	126.68	115.38	111.83	119.62	99.73	96.77
R.1 Residential, hotels	159.70	152.92	146.99	139.78	124.90	120.43	129.93	110.60	114.56
R.2 Residential, multiple family	167.27	160.49	154.56	147.35	133.71	129.23	147.50	117.40	112.76
R.3 Residential, care and non-family	150.84	151.01	147.83	144.89	138.94	135.27	141.72	130.84	122.49
R.4 Residential, care-institution living facilities	197.83	191.05	185.12	177.91	163.28	158.81	178.06	146.58	142.33
S.1 Storage, moderate hazard	108.99	103.58	97.35	93.22	83.14	78.87	88.99	66.89	62.56
S.2 Storage, low hazard	107.99	102.58	97.35	92.22	83.14	77.87	87.99	66.89	61.56
U Utility, miscellaneous	89.30	88.55	76.51	71.75	64.72	60.49	68.56	51.18	48.73

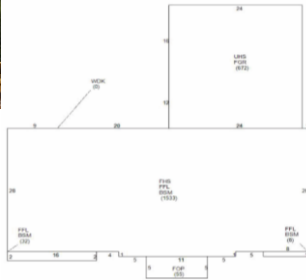
Basic Module: Section G2



Basic Module: Section G2



Basic Module: Section G2



Basic Module: Section G2



Basic Module: Section G2



Basic Module: Section H1

Block H: Casualties

<input type="checkbox"/> H1 ★ Casualties	<input type="checkbox"/> None	
	Deaths Injuries	
Fire		
Service		
Civilian		

- A person injured or killed either as a result of the incident or during the mitigation of the incident.
- An injury is physical damage to a person that requires either
 1. Treatment by a practitioner of medicine within 1 year of the incident, or
 2. At least 1 day of restricted activity immediately following the incident.
- Deaths also include people who die within 1 year because of injuries sustained from the incident.

Basic Module: Section H1 – The Rules

<input type="checkbox"/> H1 ★ Casualties	<input type="checkbox"/> None	
	Deaths Injuries	
Fire		
Service		
Civilian		

- ✓ Fire Service Rule #1:
 - Include those people injured or killed while responding to or returning from the incident. If the injury or death occurred on fire department property after the apparatus was placed back in service, do not include it in this section.
- ✓ Fire Service Rule #2:
 - On-duty firefighter injuries or deaths that did not occur during an incident may be collected using the Fire Service Casualty Module. Remember when reporting a firefighter casualty of this type, the Basic Module must still be filled out, complete with an incident number. In this event, create an EMS incident with the appropriate response information.

Basic Module: Section H1 – The Rules

<input type="checkbox"/> H1 ★ Casualties	<input type="checkbox"/> None	
	Deaths Injuries	
Fire		
Service		
Civilian		

- Civilian Death:
 - Enter the number of civilians or non-fire department personnel who died in connection with this incident.
 - Enter only fire-related deaths here.
- Civilian Injury:
 - Enter the number of civilians or non-fire department personnel who were injured (but did not die) in connection with this incident.
 - Enter only fire-related injuries here.

Basic Module: Section D

Section D: Aid Given or Received

Aid Given or Received	
<input type="checkbox"/>	Mutual aid received
<input type="checkbox"/>	Auto. aid received
<input type="checkbox"/>	Mutual aid given
<input type="checkbox"/>	Auto. aid given
<input type="checkbox"/>	Other aid given

- ❖ Aid information can be used to study response levels necessary to control various fire and emergency situations. It can be used to determine the adequacy of resources at the local level and the need for adjusting cooperative agreements. The Aid Given or Received entry serves as data control to ensure that the same incident is not counted more than once while still giving credit for activity performed by outside departments.

Basic Module: Section D – The Rules

- **Mutual Aid:** Request for assistance for a specific incident
- **Automatic Aid:** Prearranged request for assistance

• Aid Received:

- A fire department handles an incident within its jurisdiction with additional manpower or equipment from one or more outside fire departments.

• Automatic Given:

- A fire department responds into another fire department's jurisdiction to provide assistance at an incident or to cover a vacated station.

Scenario: Mutual Aid 1

- Watertown Fire Department is dispatched to building fire at 123 Main Street. Working fire upon arrival and additional resources are needed on-scene. Middlebury Fire Department is requested to respond with an Engine. Middlebury arrives on scene and performs all requested tasks. Middlebury Engine is released from the scene and returns to Middlebury.

Scenario Report: Mutual Aid 1

Watertown Fire Department **Middlebury Fire Department**

- **Basic Module**
 - Section D: Mutual Aid
 - Mutual Aid Received
 - Other required modules
- **Basic Module**
 - Section D: Mutual Aid
 - Mutual Aid Given
 - FDID: 01240
 - WFD Incident Number

Scenario: Mutual Aid 2

- Watertown Fire Department is dispatched to a major motor vehicle accident. Upon arrival, the Incident Commander determines that the incident will be an extended operation and requests one Engine from the Middlebury Fire Department to cover the Watertown Station.
- Middlebury Fire Department dispatches one engine for the cover assignment. They standby for approximately 2 hours and are released.

Scenario Report: Mutual Aid 2

Watertown Fire Department **Middlebury Fire Department**

- **Basic Module (322)**
 - Section D: Mutual Aid
 - None
 - Other required modules
- **Basic Module (571)**
 - Section D: Mutual Aid
 - Mutual Aid Given
 - FDID: 01240
 - Incident #: Blank
 - MFD did not respond to an incident

Scenario: Mutual Aid 3

- Watertown Fire Department is dispatched to a major motor vehicle accident. Upon arrival, the Incident Commander determines that the incident will be an extended operation and requests one Engine from the Middlebury Fire Department to cover the Watertown Station.
- Middlebury Fire Department dispatches one engine for the cover assignment. While standing by, MFD responds to two calls for Watertown:
 - EMS call – 15 Court Street
 - Fire Alarm Activation – 23 College Street
- Following the last call on College Street, MFD is released from coverage by Watertown

Scenario Report: Mutual Aid 3

- | Watertown Fire Department | Middlebury Fire Department |
|--|---|
| <ul style="list-style-type: none">• Basic Module (322)<ul style="list-style-type: none">• Section D: Mutual Aid<ul style="list-style-type: none">• None• Other required modules• Basic Report for 15 Court• Basic Report for 25 College | <ul style="list-style-type: none">• Basic Module (571)<ul style="list-style-type: none">• Section D: Mutual Aid<ul style="list-style-type: none">• None• Remarks/Narrative<ul style="list-style-type: none">• Note that while covering WFD, responded to two calls and list address and WFD Incident # |



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