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Section 1

Executive Summary

Introduction

The objective of this manual is to provide local and state fire agencies with the specifications necessary to develop version 5.0 of the National Fire Incident Reporting System (NFIRS). To meet this objective, three major sections are included in this document.

- Overview of the NFIRS 5.0 System
- Data Dictionary, Edits and Transfer File Specifications
- System Implementation Guide

One critical success factor in establishing an all-incident NFIRS is a complete system specification that is accepted as the national standard for fire incident reporting. This document serves as both a national standard and a guide for implementing NFIRS 5.0 at the local and state levels.

NFIRS 5.0 is designed to be a modular, all-incident reporting system. The system was designed by the United States Fire Administration, a part of the Federal Emergency Management Agency.

How NFIRS Works

NFIRS is jointly managed by the U.S. Fire Administration (USFA) and the National Fire Information Council (NFIC). NFIC is a users' group comprised of volunteers who donate their time to maintain the existing system and to research and implement changes to improve it. The members of NFIC are representatives from state agencies and large metropolitan areas that are responsible for incident data collection and analysis. As federal budgets have been reduced, the role of NFIC has expanded. Due to the extraordinary commitment of the members of this council, as well as the ongoing support of USFA, NFIRS is able to maintain its high level of performance.

As critical a role as the members of NFIC play, the heart of the system is dispersed across the country, in the 14,000 fire departments that participate in NFIRS. After responding to an incident, fire department personnel fill out the appropriate NFIRS modules. These describe the nature of the call, the actions firefighters took in response to the call, and the
result. The latter includes the number of civilian or firefighter casualties and an estimate of property loss. While specific modules filled out by a local fire department may be state-specific, they contain a core of information common to every state's reporting system. The uniformity of definitions used in coding these fields makes aggregation of national data possible.

Local agencies forward the completed NFIRS modules, which are filled out either manually or via computer, to the state agency responsible for NFIRS data. The state agency combines the information with data from other fire departments into a statewide database and then electronically submits the data to the National Fire Data Center (NFDC) at the U.S. Fire Administration. The NFDC can then compare and contrast statistics from states and large metropolitan departments to develop national public education campaigns, make recommendations for national codes and standards, guide allocation of federal funds, ascertain consumer product failures, identify the focus for research efforts, and support federal legislation. The annual NFIRS data are used as the basis for the U.S. Fire Administration's publication *Fire in the United States*, which is the single most comprehensive reference on the nature and scope of the fire problem in the U.S.

At the national level, data combined from participating states is also used by information partners, including:

- U.S. Consumer Product Safety Commission (CPSC)
- International Association of Fire Chiefs (IAFC)
- International Association of Firefighters (IAFF)
- National Association of State Fire Marshals (NASFM)
- National Fire Protection Association (NFPA)
- National Highway Traffic Safety Administration (NHTSA)
- National Volunteer Fire Council (NVFC)

**The Benefits of NFIRS to Firefighters**

The new system is specifically designed to be more firefighter friendly. Two additional modules, the Apparatus and Personnel Modules, have been added to assist fire departments in managing apparatus, personnel, and resources.

Every fire department is responsible for managing its operations in such a way that firefighters can do the most effective job of fire control and fire prevention. Effective performance requires careful planning, which can only take place if accurate information about fires and other incidents are available. Patterns that emerge from the analysis of incident data can help departments focus on current problems, predict future problems in their communities, and measure their programs' successes.

The same principle is also applicable at the state and national level. NFIRS provides a mechanism for analyzing incident data at each level to help meet fire protection management and planning needs. In addition, NFIRS information is used by labor organizations on a variety of matters, such as workloads and firefighter injuries.
Coding Background

Incident data collection is not new. Many cities and states have used data systems for years – some doing their analyses by hand, some using computer systems.

In 1963, the National Fire Protection Association (NFPA) formed a technical committee to devise a uniform system of fire reporting to encourage fire departments to use a common set of definitions.

A dictionary of fire terminology and associated numerical codes was developed. This dictionary is known as NFPA 901, Standard Classifications for Incident Reporting and Fire Protection. As the fire service gained experience with this fire data “language,” improvements were made to the system. The current set of codes used in NFIRS 5.0 represents the merging of the ideas from NFPA 901 and the many suggested improvements from the users of the NFIRS 4.1 coding system.

NFIRS Background

In 1972, the President's Commission on Fire Prevention and Control issued a document entitled, America Burning. This document was the first “in-depth” discussion of this country's fire problem. The outgrowth of America Burning was the National Fire Prevention and Control Act, Public Law 93-498, which established the National Fire Prevention and Control Administration.

One of the results of the Public Law 93-498 mandate to collect national data on fires was the establishment of the National Fire Incident Reporting System. In 1976, six states piloted what was to become the National Fire Incident Reporting System, or NFIRS. The U.S. Fire Administration developed NFIRS as a means of assessing the nature and scope of the fire problem in the U.S.

NFIRS Today

The NFIRS system first came on line in 1976, and since then, it has grown in both participation and use. At the time this handbook was being prepared, 42 states and over 14,000 of this nation's fire departments were participating in NFIRS. This makes NFIRS the largest collector of fire-related incident data in the world. NFIRS contributes over 900,000 fire incidents each year to the National Fire Database.

Some states and fire departments are just beginning to participate in NFIRS, others have large databases containing several years of data. NFIRS data is being used at all levels of government: local, state, and national.

At the local level, incident and casualty module information is being used for setting priorities and targeting resources. The data now being collected is particularly useful for designing fire prevention/education programs and EMS-related activities specifically suited to the real emergency problems the local community is currently facing.

On the state level, NFIRS is being used in many different capacities. One valuable way that it has aided the states is through work with the legislature. NFIRS has been used to justify state budgets and has helped in the passage of important bills on fireworks and arson. As in the local level, the data collected is particularly useful for designing fire prevention and education programs.
Nationally, NFIRS has been used by various private industry organizations, including national associations for home appliance product manufacturers, the hotel and motel industry, insurance companies, attorneys and many others.

Many other federal agencies (aside from FEMA and the USFA) use NFIRS data, such as the Consumer Product Safety Commission, the National Highway Traffic Safety Administration, and the National Institute of Standards and Technology. The Consumer Product Safety Commission has found this system very useful in finding products that could be a hazard to consumers. With each year, the quality of the available data is improving and new and better ways to use it are devised.

What is NFIC?

As the number of NFIRS states and major metropolitan areas increased from six initial states to 42 states and 34 major metropolitan areas, it became apparent that some organization was needed to give these NFIRS participants a forum to exchange ideas and discuss common problems. The National Association of NFIRS States (NANS) was established in 1979 to provide this opportunity. Through continued change and alignment of state and metro participation in the overall operation of the NFIRS System, the importance of NANS increased.

In 1981, the name of the organization was changed to the “National Fire Information Council,” or NFIC. Each state participating in NFIRS has one representative in NFIC, as does each major metropolitan area that serves 500,000 or more people.

NFIC is governed by a board of 15 directors, three from each of four geographical regions and three from metro areas. Members of the board are elected at an annual conference. The board acts as a liaison between USFA and NFIRS participants for major policy decisions concerning NFIRS operations or support.

History of NFIRS Participation

Because NFIRS is a voluntary system, not all states or fire departments within states participate. In 1977, one of the early years of the system, five states regularly reported data to the National Fire Data Center, and 19 others had data systems in some stage of development. Since then participation has increased to 42 states, and over 14,000 fire departments report to NFIRS. It is estimated that 44 percent of all fires to which fire departments respond are captured in NFIRS, making NFIRS an extremely large sample of all fires that occur each year.

Because states have the flexibility to adapt their state reporting systems to their needs, and since reporting by localities is voluntary, the design of a state's data collection system can vary from state to state. However, NFIRS was designed so that data from state systems can be converted to a single format that is used at the national level to aggregate and store NFIRS data.

The existing NFIRS employs techniques of data entry, validation, transmittal and analysis that represented the state-of-the-art at the time of its original design in the late 1970's. Advances in computer technology have now far eclipsed the current NFIRS. Survey feedback from participating fire departments, states and vendors has resulted in valuable sug-
gestions to improve the system, many of which cannot easily be implemented within the current system due to the vintage of its architecture.

**Roles and Responsibilities**

**United States Fire Administration.** Provide oversight and leadership in developing NFIRS 5.0 specifications and maintaining the National Fire Data Center.

**National Fire Information Council.** Coordinate the implementation and ongoing training and overall policy decision-making functions to support NFIRS.

**State Fire Marshals/State Incident Reporting Focus.** Implement and maintain an active NFIRS 5.0 compliant data collection program within their jurisdiction, provide statewide data management policy making, and act as a central focus for information management at a state level.

**Local Agencies.** Document incidents and implement and maintain an active NFIRS 5.0 compliant reporting system.

**Information Partners.** Use the data/information and make suggestions for improvement and/or additions to the system. Support and encourage the use and expansion of NFIRS 5.0 compliant systems. Work with NFIC to create updates and improvements that will meet the dynamic needs of the fire service.
Section 2

System Overview

The Data-based Decision-making Process

Fire personnel accurately recording the circumstances of all incidents, using a reliable and consistent coding methodology, is the first step in the data reporting process and a key for developing profiles that affect a department's decisions. Incident data can be used by fire departments to document their experience, support all types of management decisions, and identify, prepare and justify budget requests.

Consistent response data supports local decision making in administration and operations.

Local agencies then can send their incident data to the state, where the information is combined with data from other fire departments into a statewide database. By combining data at the state level, trends in fire problems can be detected that are often too infrequent to be seen at the local level and a state fire profile developed. Trend information can be used to target fire safety and prevention programs, as well as assist in identifying the safety level of products and practices. For these reasons, fire incident reporting is mandatory in many states.

State-level data points policymakers to problems that need a broadly-based response.

State incident data is sent to the National Fire Data Center (NFDC) at the United States Fire Administration for further analysis. The NFDC can compare and contrast statistics from states and large metropolitan departments to develop national public education programs, make recommendations for national codes and standards, guide allocation of federal funds, identify consumer product failures, identify the focus for research efforts, and support federal legislation, such as the Hotel/Motel Fire Safety Act (Pub. L. 101-391 - Sept. 25, 1990).

National level data can be used by information partners to address community risk reduction issues.

At the national level, data combined from participating states can be used by the information partners. These organizations use national-level fire data to establish policy, allocate funds, and set standards to affect the fire problem. Decision-making based on incident patterns identifies common areas for prevention and high-risk products, and geographic areas so partners can take steps in response.

Addressing issues nationally can help local emergency responders acquire resources to address high-risk issues.

The purpose at all levels in the data reporting system is to provide timely and reliable information that supports the decision-making process, whether it is a fire captain identifying target hazards and properly deploying resources based on incident information, or the CPSC banning unsafe products like flammable sleepwear for children.
The All-Incident Reporting System

The USFA, as well as many states, is mandated by law to collect information on fires, and rely on the nation's fire service to meet that requirement through the National Fire Incident Reporting System (NFIRS). The NFIRS (Version 4.1) cannot adequately meet today's fire service information needs because it was designed to collect only fire information, which represents a fraction of the tasks performed by the fire service. The new NFIRS will address the fire service's need for a system that accounts for the full range of fire department incidents.

NFIRS 5.0 is based on 20 years of experience in data management among current NFIRS users, and ideas from national fire service organizations.

NFIRS program managers representing 42 states and 34 metro fire departments have learned many lessons about fire reporting during the past 20 years. With the input of state Fire Marshals, Metro Fire Chiefs, local Fire Departments, and customers such as the IAFC, IAFF, NFPA, CPSC, and NHTSA, they developed NFIRS 5.0, guided by the following specific design objectives.

FIGURE 2-1. Incident Reporting Process
**System Design Objectives**

- **NFIRS 5.0 records information about all responses, not just fires.**
  - Create an All-Incident Reporting System. To keep pace with the rapidly changing activities of the fire service, NFIRS 5.0 must be designed as an “all-incident” system including, but not limited to: Fire, EMS, HazMat, Wildland and Arson incidents. Inclusion of new incident types must be supported by the NFIRS 5.0 Standard.
- Develop a set of reporting codes that can accurately, reliably and easily describe any incident. All data should be readily collectible, reportable and usable.
- Promote uniformity of incident reporting by establishing the NFIRS 5.0 coding methodology as the accepted national standard, with the consensus of the USFA, NFIC, NFPA, IAFC, IAFF, NASFM and other information partners.

- **NFIRS 5.0 is broadly supported by national organizations.**
  - Make the system hardware platform independent. The NFIRS 5.0 Design Specifications must support the development of a data collection system on any hardware platform to ensure its universal acceptance and the capability to integrate with existing systems, where needed.
- **NFIRS 5.0 is flexible and adaptable, working with a variety of hardware and software systems, including previous editions of NFIRS.**
  - Make the system application software/database independent. The NFIRS 5.0 Design Specifications must support the development of a data collection system using industry standard software that is non-proprietary to the specification. This will help to ensure universal acceptance of the NFIRS 5.0 Standard and allow for its integration with existing systems.
  - Map the historical data from the old system to the new system where feasible.
  - Preserve the ability for a state to collect Version 4 or 4.1 incident reports without maintaining a separate database.

**Benefits**

A modular design increases the system flexibility, and decreases data collection.

The new system is modular in design and only uses the modules necessary to describe the incidents. Data is collected for all incident types in one basic module. More detailed information can be collected with other modules to further profile fires, structure fires, civilian casualties, fire fighter casualties, hazardous materials, wildland fires, arson, apparatus, personnel, and EMS incidents as necessary.

The modular design makes the system easier to use because only the data required to profile the extent of the incident is captured. Accuracy and reliability have been improved by modifying the coding system.

**Ease of Use**

- Simplifies look-ups by alphabetizing coding lists with multiple choices for the same code.
- Merges the codes ending in 9 and 0. Version 4.1 required a distinction between the codes ending in 9, “not otherwise classified”, and the codes ending in 0, “insufficient information to classify further”. The proper distinction between these two codes is often not observable in the field.
- Eliminates compound codes. Some of the previous codes have contained embedded multiple questions. NFIRS 5.0 splits these elements, since they are often confusing to the reporter and result in ambiguous or erroneous answers. Although this may increase the number of fields, the choices will be clearer among alternatives and the number of codes are decreased. For example, “Equipment Involved in Ignition” in Version 4.1 is...
a long, complex list of equipment that includes factors on power source and use. Version 5.0 creates just three categories (Equipment, Equipment Portability, and Equipment Power Source) to make coding easier, more accurate, and specific.

- Provides for abbreviated reporting of self-contained, non-loss fires by using a basic incident form that can be completed with as little as three look-ups. This may represent the majority of all fire incidents in many jurisdictions.
- Abbreviates paths through the system for nuisance fires where there have been no losses or casualties. This will eliminate the amount of information that needs to be entered into the system.
- Documents small spills of common hazardous materials on the basic form. More detailed information can be provided on the optional hazardous materials module if a serious release of hazardous materials occurs.

Compatibility

- Compatible with current electronic technology. Version 5.0 is designed for electronic media technology. The design specification in Section 3 contains specific data libraries, programming specifications, and data flow charts.
- Includes a mapping strategy back to Version 4.1 to provide for statistical analysis of historical data.
- Designed to support current and anticipated technologies: client-server, object-oriented database; and Internet WEB server technology.
- Allows for the inclusion of optional state or local data storage and retrieval. This data is for use at the local or state level only.
- Recognizes that there may be a need for additional data elements to meet the local situation.

Comprehensiveness

- Collects behavioral information on multiple levels, e.g., children playing with fire, age range, what they used to set the fire, and if they were alone at the time of the incident.
- Formats the address to allow computerized queries and street-based address matching for Geographic Information System (GIS) purposes.
- Breaks fire losses into property and contents to better define structure losses. Pre-incident value is also now captured as an optional data element.
- Captures specific property information about multiple on-site materials and their use. This will allow identification of non-intended or illegal uses of property, such as residential drug houses or laboratories.
- Notes information on the number of acres burned for all fires. Specific and detailed information about wildland or large open fires is captured for those fires only.
- Represents missing (not-reported) data as blanks system wide. Missing data will no longer be lumped in with undetermined default code values.

Reliability

- Profiles fire prevention and code issues that affected the fire.
- Captures multiple factors contributing to the causes of the fire for the first time. This allows identification of juvenile fire setters, gang involvement in fires, alcohol and cigarette interaction, as well as drugs and youth involvement by age categories.
• Expands on equipment involved in starting fires. Detailed tracking of specific equipment involved in fire ignitions is possible.

• Highlights factors that affect fireground suppression. Burglar bars, high-rack storage, balloon construction and unprotected vertical openings are some examples of this information.

Usefulness

• Provides better information on the impact of fire protection features.

• Transmits certification of applications with certification numbers to the state.

• Includes carbon monoxide incidents.

• Notes one-time information for special studies purposes.

• Groups fire service resources for apparatus and personnel by use at the incident. Specific, detailed information about the use of fire service personnel and apparatus will be collected in a standard way for the first time in optional modules. This will permit staffing studies on several levels of use.

• Outlines detailed information on the impact of fires on buildings. Information on the building’s size, number of stories and status is now available. Specific information on fire origin, damage patterns, flame spread and materials contributing to flame spread is captured as well.

• Expands information on detectors and automatic suppression systems. Information on the system’s presence, range, power supply, effectiveness, operation, and reason for failure is included.

• Extends information on casualties to provide a better understanding of the relationship of the casualty to factors contributing to injury, as well as the nature and cause of injuries.

System Module Overview

Version 5.0 uses a modular format to increase the accuracy and applicability of data collection for all incident types. The overall number of data fields has been increased. However, because 5.0 takes advantage of selective field entries based on incident type, the number of fields used to define an incident has decreased compared to Version 4.1. Version 5.0 has eleven modules that are described below.

Basic Module (NFIRS-1)

The Basic Module is used for every incident. This may be the only module necessary for certain incident types such as confined fires, small vegetation fires, outside rubbish fires, explosions, and other incidents classified as “other fire types and non-fires.” This feature satisfies the request for short form fire reporting.
NFIRS-1 includes information on:

- Fire Department Identifier
- Location
- Incident Type
- Aid Given or Received
- Dates And Times/Shifts/Special Studies
- Actions Taken
- Dollar Losses And Values
- Casualties
- Hazmat Releases
- Property Use
- Persons and Entities Involved

A basic module would be completed for incidents similar to these examples:

- Food on Stove/Contained No-loss Fires
- Outside Trash Fire
- Major Accidents
- First Responder Calls
- Assist Police

**Supplemental Module (NFIRS-1S)**

The Supplemental Module adds flexibility to any incident report by expanding the data.

This Module is used to record additional information as required by the local fire department.

The NFIRS-1S includes information on:

- Person/Entity Involved
- Special Studies
Fire Module (NFIRS-2)

The Fire Module is used to record information on incidents involving fires, including buildings, outside storage fires, vehicle fires, and larger vegetation fires. As an option, the wildland module can be used for vegetation and other outside fires. Building fires require the use of the Structure Fire Module.

NFIRS–2 includes information on:

- Property Details
- On-Site Materials
- Ignition: Area, Source of Ignition, Material Ignited, Factors Contributing, Human Issues, Equipment Involved
- Human Factors Involved
- Mobile Property Description
- Fire Origin and Spread Description
- Fire Suppression Factors

Actual fire incidents are profiled in depth, using a dedicated module.

A Basic Module and Fire Module would be completed for incidents as outlined in the following example:

**Car Fire**

The identifier, location, incident type, aid given or received, dates and times, actions taken, estimated dollar losses and values, casualties and property use sections would be completed for the basic module.

The identifier, on-site materials, ignition, cause of ignition, factors contributing to ignition, human factors contributing to ignition, equipment involved in ignition and mobile property sections would be completed for the fire module.

If multiple persons and entities are involved, the supplemental module would be used to record the additional details.
Structure Fire Module (NFIRS-3)

The Structure Fire Module is used to record information on incidents involving structure fires.

**FIGURE 2-4. Structure Fire Module**

NFIRS-3 includes information on:
- Structure type
- Building status, height, main floor size
- Fire origin, fire spread, number of stories damaged by flame
- Material contributing to flame spread
- Presence of detectors, detector type, detector power supply, detector operation, detector effectiveness, detector failure reason
- Presence of automatic extinguishment system (AES), type of AES, AES operation, AES effectiveness and AES failure reason

NFIRS-3 can be described through fire and structure module data, personnel information, and apparatus response details.

A Basic Module, Fire Module and Structure Fire Module would be completed for incidents such as these examples:

**House Fire**
At a minimum, the Basic Module, the Fire Module and the Structure Module would be completed for a house fire. Additional modules may be required if there are casualties, etc.

The Basic Module records the location, incident type, aid given or received, dates and times, actions taken, estimated dollar losses and values, casualties, property use and persons involved.

The Fire Module records the on-site materials, ignition, cause of ignition, factors contributing to ignition, human factors contributing to ignition, equipment involved in ignition and mobile property.

The Structure Fire Module records the building status, building size, main floor size, fire origin, fire spread, number of stories damaged by flame, presence of detectors, detector type, detector power supply, detector operation, detector effectiveness, detector failure reason, presence of automatic extinguishment system (AES), type of AES, AES operation, AES effectiveness and AES failure reason.
Either the resources section on the Basic Module or the Apparatus or Personnel modules could be used. If there are civilian or firefighter casualties, then the appropriate casualty module would be used.

If multiple persons and entities are involved, then the modules for other resources would be used.

**Hotel Fire**

At a minimum, the Basic Module, the Fire Module and the Structure Module would be completed for a hotel fire.

The Basic Module records the location, incident type, aid given or received, dates and times, actions taken, estimated dollar losses and values, casualties, property use and persons involved.

The Fire Module records the on-site materials, ignition, cause of ignition, factors contributing to ignition, human factors contributing to ignition, equipment involved in ignition and mobile property.

The Structure Fire Module records the building status, building size, main floor size, fire origin, fire spread, number of stories damaged by flame, presence of detectors, detector type, detector power supply, detector operation, detector effectiveness, detector failure reason, presence of automatic extinguishment system (AES), type of AES, AES operation, AES effectiveness and AES failure reason.

Either the resources section on the Basic Module or the Apparatus or Personnel modules could be used. If there are civilian or firefighter casualties then the appropriate casualty module could be used.

If multiple persons and entities are involved, the supplemental module would be used to record the additional details.

**Civilian Fire Casualty Module (NFIRS-4)**

The Civilian Casualty Module is used whenever a fire incident type involves a civilian injury or fatality.

**FIGURE 2-5. Civilian Fire Casualty Module**

Larger fire incidents can be extensively described through available data fields and supplemental modules.
NFIRS-4 includes information on:

- Person's identification
- Demographic information
- Injury causes, including human and contributing factors
- Activity when injured
- Location when injured
- Symptoms and portion of body injured
- Disposition

At a minimum, the Basic Module and the Fire Module must be completed. Depending on the incident, the Structure Fire Module may also be required.

**Fire Service Casualty Module (NFIRS-5)**

The Fire Service Casualty Module is used when fire service personnel suffer an injury, fall or exposure involved with any incident. When the Fire Service Casualty Module is used, at a minimum the Basic Module must also be completed.

**FIGURE 2-6. Fire Service Casualty Module**

Other modules may also be required depending on the incident type.

NFIRS-5 includes information on:

- Person's identification and age
- Injury time
- Assignment and activity at time of injury
- Severity of injury and disposition
- Location of victim when injured
- Symptoms and portion of body injured
- Cause of injury, factors contributing, object involved
- Where injury occurred
- Equipment profiles
Emergency Medical Services (EMS) Module (NFIRS-6)

The EMS Module is used as an option at the local level when the fire department provides emergency medical service.

**FIGURE 2-7. Emergency Medical Services (EMS) Module**

NFIRS – 6 includes information on:
- Incident location and type
- In service dates and times
- Provider assessment
- Victim demographics
- Injury/illness description
- Procedures used
- Safety equipment involved
- Care level
- Patient status and disposition

Emergency Medical Services Module example:

**Rescue Run**

A rescue run would use the Basic Module as well as the EMS Module and possibly one of the other resources modules.

The identifier, location, incident type, aid given or received, dates and times, actions taken, estimated dollar losses and values, casualties and property use sections would be completed for the Basic Module.

Either the resources section on the Basic Module or the Apparatus Module or Personnel Module would be used.

If multiple persons and entities are involved, the other resources modules could be completed.
The EMS Module may be used as an option. The identifier information, dates and times, age and gender, provider impression/assessment, race/ethnicity, injury description, cause of illness/injury, highest level of care, patient status and disposition should be completed.

**Hazardous Materials (HazMat) Module (NFIRS-7)**

The HazMat Module is used when the Basic Module indicates “other” for hazardous materials.

**FIGURE 2-8. HazMat Module**

HFIRS-7 includes information on:

- Materials identification
- Container information
- Release amounts and location
- Actions taken
- Mitigating factors

An incident such as this example would be recorded using the Basic Module, Fire Module, and HazMat Module and possibly other Resource Modules.

**Chemical Plant Fire**

The identifier, location, incident type, aid given or received, dates and times, actions taken, estimated dollar losses and values, casualties and property use sections would be completed for the Basic Module.

The identifier, on-site materials, ignition, cause of ignition, factors contributing to ignition, human factors contributing to ignition, equipment involved in ignition and mobile property sections would be completed on the Fire Module.

The building status, building size, main floor size, fire origin, fire spread, number of stories damaged by flame, presence of detectors, detector type, detector power supply, detector operation, detector effectiveness, detector failure reason, presence of automatic extinguishment system (AES), type of AES, AES operation, AES effectiveness and AES failure reason sections would be completed for the Structure Module.
Either the resources section on the Basic Module, or the Apparatus or Personnel modules would be used. If casualties occurred then the appropriate casualty module would be completed. The EMS Module is an optional choice but the Civilian Fire Casualty Module is not required.

The identifier, HazMat ID, container type, physical state when released, released from, population density, actions taken, release resulted in, cause of release, factors contributing to release, mitigating factors and impediments, equipment involved in release and mobile property sections must be completed on the HazMat Module.

If multiple persons and entities were involved, the other Resources Modules would be used.

**Wildland Module (NFIRS-8)**

The Wildland Module is used when the incident type is vegetation and other outside fires.

**FIGURE 2-9. Wildland Module**

NFIRS-8 includes information on:

- Property details
- Fire cause
- Ignition information
- Fire suppression and management
- Mobile property type
- Equipment involved in ignition
- Weather data
- Fuel model at origin
- Total acres burned
- Property management
- Person responsible
- Fire behavior
In this example, a Basic Module would be completed, as well as the Wildland Fire Module instead of the Fire Module which is usually completed. A firefighter injury requires the completion of the Firefighter Casualty Module. The other Resources Modules and the EMS Module could be options for this incident as well.

**Forest/Wildland Fire**

The identifier, location, incident type, aid given or received, dates and times, actions taken, estimated dollar losses and values, casualties and property use sections would be completed for the Basic Module.

The identifier, alternate location (if the location on the basic form is not used), area type, fire cause, factors contributing to ignition, human factors contributing to ignition, suppression factors, equipment involved in ignition, mobile property type, weather information, number of buildings threatened and involved, fuel model at origin, acres and crops burned, the property management section, the person responsible section and the fire behavior section would be completed for the Wildland Module.

The appropriate Casualty Module would be completed. Either the resources section on the Basic Module or the Apparatus Module or Personnel Module would be used.

If multiple persons and entities are involved, the supplemental module could be used.

The EMS Module may be used as an option. The identifier information, dates and times, age and gender, provider impression/assessment, race/ethnicity, injury description, cause of illness/injury, highest level of care, patient status and disposition would be completed.

**Apparatus Module (NFIRS-9)**

The Apparatus Module is used as a local option to identify apparatus sent to each incident. If the Apparatus Module is used, the Basic Module must also be completed.

*NOTE: When NFIRS Version 5.0 is implemented the local fire department must choose to use either the Apparatus Module or the Personnel Module depending on the level of detail needed by the department. The Personnel Module contains all data elements from the Apparatus Module plus additional data at the firefighter level.*

**FIGURE 2-10. Apparatus Module**

[Diagram of Apparatus Module showing the Basic Module, Fire Module, Structure Fire Module, Casualty Modules, EMS Module, HazMat Module, Wildland Fire Module, and Resource Modules with arrows pointing to State Incident Reporting Authority and U.S. Fire Administration National Fire Data Center]
NFIRS-9 includes information on:

- Apparatus identification and type
- Dispatch, arrival, clear dates and times
- Number of personnel
- Use
- Actions taken

**Personnel Module (NFIRS-10)**

Modules profiling equipment and personnel provide administrators with data that can be used for management strategy development.

The Personnel Module is used as a local option to identify personnel sent to each incident. If the Personnel Module is used, the Basic Module must also be completed.

**NOTE:** When NFIRS Version 5.0 is implemented the local fire department must choose to use either the Apparatus Module or the Personnel Module depending on the level of detail needed by the department. The Personnel Module contains all data elements from the Apparatus Module plus additional data at the firefighter level.

![Personnel Module Diagram](image)

NFIRS – 10 includes information on:

- Apparatus identification and type
- Dispatch, arrival, clear dates and times
- Use
- Actions taken
- Personnel ID, rank, actions taken

**Arson Module (NFIRS-11)**

The Arson Module is optional and when used in conjunction with the Basic, Fire, and/or Structure Fire Modules allows departments to collect information about intentionally set fires. NFIRS-11 is designed to collect standardized information and interface directly with the Bureau of Alcohol, Tobacco, and Firearms’ Arson and Explosives National Repository.
The NFIRS-11 includes information on:

- Agency investigating the incident
- Case status
- Suspected motivation factors
- Entry methods, devices, other information
- Property ownership,
- Laboratory used
System Architecture

The NFIRS 5.0 system is implemented as a distributed client-server system using “state-of-the-art” technologies. The system architecture has been specifically designed to provide flexibility for the implementation of the NFIRS 5.0 system.

At the core of the NFIRS 5.0 system is a national database server and server software that resides on the FEMA WAN. Incident data stored in the NFIRS 5.0 system is organized by state and identified as a valid incident through the tools provided by the USFA. States are required to ‘release’ valid incidents that are available for general use. Some states may prefer to store all their incident data on a local database. In this case they have the option to upload only the valid incidents to the National database server and ‘release’ those valid incidents that are available for general use.

Depending on how a state chooses to implement the NFIRS 5.0 system, the components of the system required and the options available for those components will vary. The main differentiating factors between the scenarios surround where the data is stored and where incident data entry takes place. For discussion of the options available to the state, see “System Implementation Guidelines” on page 333.

Figure 3-1 on page 24 depicts some of the inbound incident collection connectivity options available to states and local users.
FIGURE 3-1. NFIRS 5.0 System Information Flow

NFIRS 5.0 System Information Flow Diagram

Data Entry at FD
(Local Database)

Flat file of Incidents (NFIRS 4.1 or 5.0 Format)

Validation/ Conversion Tool

Report of Validation Errors

Flat File of Incidents (NFIRS 5.0 Format)

Fire Station Data Entry NFIRS 4.1 or 5.0 (Custom System or 3rd Party Software)

Internet

Data Entry at FD (Non-Participating State)

Metros ftp incident files (via internet to National Server)

Fire Station Data Entry NFIRS 5.0 (Client Software with LOCAL Access Database)

States ftp incident files (via internet to Intranet or National Web Server)

States Web Server receives incidents via FTP (over internet)

States Web Server

Firewall

National App. Server

National Database

Data Entry at State (National Database)

Metros enter incidents directly into State system (via State Intranet)

State Internet

State App. Server

State DB

NFIRS 5.0 (Client Software with REMOTE Connection to State Database)

NFIRS 4.1 or 5.0 (Custom System or 3rd Party Software)

Internet

FEMA WAN/ Internet

National Web Server receives Incident via FTP (over internet)

National Web Server

States ftp incident files (via internet to Intranet or National Web Server)

States Web Server

Internet

Data Entry at FD
(State Database)

Fire Station Entry NFIRS 5.0 (Client Software with REMOTE Connection to State Database)

Internet

FDs ftp incident files (via internet to State or National Web Server)

Fire Station Data Entry NFIRS 4.1 or 5.0 (Custom System or 3rd Party Software)

Fire Station Data Entry NFIRS 5.0 (Client Software with LOCAL Access Database)
System Modules

The new system is modular in design and only requires the modules necessary to describe a particular incident. Data is collected on all incidents in a basic module with additional modules employed to further profile fires, structure fires, civilian fire casualties, fire service casualties, EMS incidents, hazardous material incidents, fires, apparatus, personnel deployment and arson fires.

The following is a brief description of each module used in the NFIRS Version 5.0.

The Basic Module (NFIRS-1) is used to describe every incident (or emergency call) to which your fire department responds. The Basic Module should be filled out for every incident to which the department responds. A sample of the Basic form is shown in Figure 3-2 on page 27.

The Fire Module (NFIRS-2) is used to describe each fire incident to which your fire department responds and must be used in conjunction with the Basic Module (NFIRS-1). For wildland fire incidents, the Wildland Fire Module (NFIRS-8) can be used instead of the Fire Module if that option is selected for use by your state or local reporting system administrator. A sample of the Fire form is shown in Figure 3-4 on page 29.

The Structure Fire Module (NFIRS-3) is used to describe each structure fire to which your fire department responds. This module must be used in conjunction with the Basic Module (NFIRS-1) and the Fire Module (NFIRS-2). When reporting using the paper forms, NFIRS-3 is generally printed on the back of the NFIRS-2 Fire form. A sample of the Structure Fire form is shown in Figure 3-5 on page 30.

The Civilian Fire Casualty Module (NFIRS-4) is used to report injuries or deaths to civilians or other emergency personnel (such as police officers or non-fire department EMS personnel) that occur in conjunction with a fire incident. The Civilian Fire Casualty Module must be used in conjunction with the Basic Module, the Fire Module, and if applicable the Structure Fire Module. NFIRS-4 is specifically designed for reporting injuries and fatalities caused by, or related to, a fire. To report non-fire related injuries to civilians the EMS Module (NFIRS-6) can be used. A sample of the Civilian Fire Casualty form is shown in Figure 3-6 on page 31.

The Fire Service Casualty Module (NFIRS-5) is used to report injuries or the deaths to firefighters. The module can also be used to report the exposure of a fire fighter to chemicals or biological agents at an incident where that exposure does not result in any symptoms at that time but where that exposure or accumulated exposures could lead to an illness at a later date. This module must be used in conjunction with the Basic Module and may be used with any of the other modules. A sample of the Fire Service Casualty form is shown in Figure 3-7 on page 32, and Figure 3-8 on page 33.

The EMS Module (NFIRS-6) is an optional module that can be used by those fire departments that provide emergency medical services to their community. It should be used only when the EMS Module option is selected by your state or local reporting system administrator. The module is used to report all medical incidents where the fire department provided the primary patient care. This includes incidents where there were civilian fire-related injuries and a Civilian Fire Casualty Module was completed, and where there were fire fighter injuries and a Fire Service Casualty Module was completed. Note – This is not a patient care record, but should be used in conjunction with the local requirements for patient care. This module can be used in conjunction with the Basic Module (NFIRS-1). A sample of the EMS form is shown in Figure 3-9 on page 34.

The Hazardous Materials Module (NFIRS-7) is an optional module used to report major spills or releases involving hazardous materials. It should be used only when the Hazardous Materials Module option is selected by your state or local reporting system administrator. This module is designed to be used in conjunction with the Basic Module (NFIRS-1) and, if appropriate, the Fire Module (NFIRS-2) or other modules to provide detailed information about incidents involving hazardous materials. A sample of the Hazardous Materials form is shown in Figure 3-10 on page 35.
The **Wildland Fire Module (NFIRS-8)** is an optional module used to report incidents that involve wildland or vegetation fires. It should be used only when the Wildland Fire Module option is selected by your state or local reporting system administrator. This module must be used in conjunction with the Basic Module (NFIRS-1) and replaces the Fire Module (NFIRS-2) for wildland fire incidents. A sample of the Wildland Fire form is shown in Figure 3-11 on page 36.

The **Apparatus Module (NFIRS-9) and Personnel Module (NFIRS-10)** are optional department use modules used to report detailed information on the apparatus and personnel that respond to the incident. They should be used only when the Apparatus or the Personnel Module option is selected by your state or local reporting system administrator. The Apparatus Module (NFIRS-9) is used to report data specific to each piece of apparatus that responds to the incident. It includes data that can be used to calculate response time and time out of service. The Personnel Module (NFIRS-10) is used to report the same data on a piece of apparatus but also provides for tracking the personnel associated with that apparatus. These optional modules can be used in conjunction with the Basic Module (NFIRS-1) for any type of incident. A sample of the Apparatus form is shown in Figure 3-12 on page 37, and the Personnel form appears in Figure 3-13 on page 38.

The **Arson Module (NFIRS-11)** is an optional module used to report additional information on fires that have been coded by the department as intentionally set. It should be used only when the Arson Module option is selected by your state or local reporting system administrator. This module collects general information on an arson incident, which is then sent to the National Fire Data Center. A sample of the Arson form is shown in Figure 3-14 on page 39, and Figure 3-15 on page 40.

The **Supplemental Module (NFIRS-1S)** is an optional module used to report detailed information on additional persons or entities involved in the incident. It adds flexibility to any incident report by expanding the data capability. A sample of the Supplemental form is shown in Figure 3-16 on page 41, and Figure 3-17 on page 42.

To downloaded A complete set of forms from the USFA Web site click on the following URL:

http://www.nfirs.fema.gov/documentation/design/
FIGURE 3-2. NFIRS-1 Basic Form

<table>
<thead>
<tr>
<th>Location Type</th>
<th>Street address</th>
<th>Number/Mappoint</th>
<th>Street or Highway</th>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incident Type</th>
<th>Other aid given</th>
<th>Auto. aid received</th>
<th>Mutual aid received</th>
<th>Auto. aid given</th>
<th>Mutual aid given</th>
<th>Other aid given</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dates and Times</th>
<th>Days and Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month Day Year</td>
<td>Day Hour Min</td>
</tr>
<tr>
<td>Midnight is 0000</td>
<td>Midnight is 0000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Actions Taken</th>
<th>E1</th>
<th>Resources</th>
<th>G2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Action Taken (1)</td>
<td></td>
<td>Check box if resources include aid received</td>
<td>Estimated Dollar Losses and Values</td>
</tr>
<tr>
<td>Additional Action Taken (2)</td>
<td></td>
<td>Optional for non-fires.</td>
<td>LOSES:</td>
</tr>
<tr>
<td>Additional Action Taken (3)</td>
<td></td>
<td>Required for all fires if known.</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Estimated Dollar Losses and Values</th>
<th>G2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property</td>
<td>$</td>
</tr>
<tr>
<td>Contents</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special Studies</th>
<th>E3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Option</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mixed Use</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Materials Release</th>
<th>H3</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J Property Use</th>
<th>Structures</th>
</tr>
</thead>
<tbody>
<tr>
<td>341</td>
<td>Church, place of worship</td>
</tr>
<tr>
<td>361</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>419</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>459</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>519</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>936</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>938</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>939</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>946</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>951</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>952</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>953</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>954</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>955</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>956</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>957</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>958</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>959</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>960</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>961</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>962</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>963</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>964</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>965</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>966</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>967</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>968</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>969</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>970</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>971</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>972</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>973</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>974</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>975</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>976</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>977</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>978</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>979</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>980</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>981</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>982</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>983</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>984</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>985</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>986</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>987</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>988</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>989</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>990</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>991</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>992</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>993</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>994</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>995</td>
<td>1- or 2-family dwelling</td>
</tr>
<tr>
<td>996</td>
<td>Residential, board and care</td>
</tr>
<tr>
<td>997</td>
<td>Food and beverage sales</td>
</tr>
<tr>
<td>998</td>
<td>Vacant lot</td>
</tr>
<tr>
<td>999</td>
<td>1- or 2-family dwelling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>K Property Use</th>
<th>Not mixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Assembly use</td>
</tr>
<tr>
<td>20</td>
<td>Education use</td>
</tr>
<tr>
<td>30</td>
<td>Medical use</td>
</tr>
<tr>
<td>40</td>
<td>Residential use</td>
</tr>
<tr>
<td>50</td>
<td>Row of stores</td>
</tr>
<tr>
<td>60</td>
<td>Enclosed mall</td>
</tr>
<tr>
<td>70</td>
<td>Business &amp; residential</td>
</tr>
<tr>
<td>80</td>
<td>Office use</td>
</tr>
<tr>
<td>90</td>
<td>Industrial use</td>
</tr>
<tr>
<td>100</td>
<td>Military use</td>
</tr>
<tr>
<td>110</td>
<td>Farm use</td>
</tr>
<tr>
<td>120</td>
<td>Other mixed use</td>
</tr>
</tbody>
</table>
FIGURE 3-3. NFIRS-1 Basic Form (side 2)

K1 Person/Entity Involved

Local Option

Check this box if same address as incident Location (Section B). Then skip the three duplicate address lines.

Business Name (if applicable)

Area Code

Phone Number

Mr., Ms., Mrs.

First Name

M

Last Name

Suffix

Number

Prefix

Street or Highway

Street Type

Suffix

Post Office Box

Apt./Suite/Room

City

State

ZIP Code

More remarks? Check this box and attach Supplemental Forms (NFIRS–1S) as necessary.

K2 Owner

Local Option

Check this box if same address as incident Location (Section B). Then skip the three duplicate address lines.

Business Name (if applicable)

Area Code

Phone Number

Mr., Ms., Mrs.

First Name

M

Last Name

Suffix

Number

Prefix

Street or Highway

Street Type

Suffix

Post Office Box

Apt./Suite/Room

City

State

ZIP Code

Same as person involved? Check this box if same address as incident Location (Section B). Then skip the rest of this block.

Local Option

Person/Entity Involved

K1

Local Option

M

Authorization

Officer in charge ID

Signature

Position or rank

Assignment

Month

Day

Year

Member making report ID

Signature

Position or rank

Assignment

Month

Day

Year

More remarks? Check this box and attach Supplemental Forms (NFIRS–1S) as necessary.

More people involved? Check this box and attach Supplemental Forms (NFIRS–1S) as necessary.

Fire Module Required?

Check the box that applies and then complete the Fire Module based on Incident Type, as follows:

- Buildings 111
- Special structure 112
- Confinned 113–118
- Mobile property 120–123
- Vehicle 130–138
- Vegetation 140–143
- Outside rubbish fire 150–155
- Outside rubbish fire 160
- Special outside fire 161–165
- Crop fire 170–173

Complete Fire & Structure Modules
Complete Fire Module
Complete Fire Module & Section I, Structure Module
Complete Fire Module & Basic Module Only
Complete Fire Module & Complete Fire & Structure Modules
Complete Fire Module & Complete Fire or Wildland Module
Complete Fire Module & Complete Fire or Wildland Module
Complete Fire Module & Complete Fire or Wildland Module
Complete Fire Module & Complete Fire or Wildland Module
Complete Fire Module & Complete Fire or Wildland Module

ITEMS WITH A ★ MUST ALWAYS BE COMPLETED!
### FIGURE 3-4. NFIRS-2 Fire Form

**A**

| MW | DD | YYYY | Station | Incident Number | Exposure | NFIRS–2 Fire

**B**

**Property Details**

| B1 | Not Residential | Estimated number of residential living units in building of origin whether or not all units became involved |

| B2 | Buildings not involved | Number of buildings involved |

| B3 | None | Acres burned (outside fires) | Less than one acre |

**C**

**On-Site Materials or Products**

| None |

**On-Site Materials Storage Use**

| 1 | Bulk storage or warehousing |

| 2 | Processing or manufacturing |

| 3 | Package goods for sale |

| 4 | Repair or service |

| U | Undetermined |

**C1**

| On-site material (1) |

**C2**

| On-site material (2) |

**C3**

| On-site material (3) |

**D**

**Ignition**

| D1 | Area of fire origin |

| D2 | Heat source |

| D3 | Item first ignited |

| D4 | Type of material first ignited |

**E1**

**Cause of Ignition**

| 1 | Intentional |

| 2 | Unintentional |

| 3 | Failure of equipment or heat source |

| 4 | Act of nature |

| U | Cause under investigation |

| U | Cause undetermined after investigation |

**E2**

**Factors Contributing to Ignition**

| None |

**F1**

**Equipment Involved in Ignition**

| None |

**F2**

**Equipment Power Source**

| None |

**F3**

**Equipment Portability**

| Portable |

| Stationary |

**G**

**Fire Suppression Factors**

| None |

**H1**

**Mobile Property Involved**

| None |

**H2**

**Mobile Property Type and Make**

| Mobile property type |

| Mobile property make |

**Local Use**

| Pre-Fire Plan Available |

**Other reports attached**

| Arson report attached |

| Police report attached |

| Coroner report attached |

| Other reports attached |
FIGURE 3-5. NFIRS-3 Structure Fire Form

<table>
<thead>
<tr>
<th>I1 Structure Type</th>
<th>I2 Building Status</th>
<th>I3 Building Height</th>
<th>I4 Main Floor Size</th>
<th>NFIRS-3 Structure Fire</th>
</tr>
</thead>
<tbody>
<tr>
<td>If fire was in an enclosed building or a portable/mobile structure, complete the rest of this form.</td>
<td>1 Under construction</td>
<td>Count the roof as part of the highest story.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Enclosed building</td>
<td>2 Occupied &amp; operating</td>
<td>Total square feet</td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>2 Portable/mobile structure</td>
<td>3 Idle, not routinely used</td>
<td>Length in feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Open structure</td>
<td>4 Under major renovation</td>
<td>Width in feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Air-supported structure</td>
<td>5 Vacant and secured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Tent</td>
<td>6 Vacant and unsecured</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Open platform (e.g., pier)</td>
<td>7 Being demolished</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Underground structure (work areas)</td>
<td>8 Other</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Connective structure (e.g., fences)</td>
<td>U Undetermined</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 Other type of structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J1 Fire Origin</th>
<th>J2 Fire Spread</th>
<th>J3 Number of Stories Damaged by Flame</th>
<th>K Type of Material Contributing Most to Flame Spread</th>
</tr>
</thead>
<tbody>
<tr>
<td>Story of fire origin</td>
<td>If fire spread was confined to object of origin, it is not check a box (Ref. Block D3, Fire Module).</td>
<td>Count the roof as part of the highest story.</td>
<td>Item contributing most to flame spread</td>
</tr>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>K1</td>
</tr>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>K1</td>
</tr>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>K1</td>
</tr>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>K1</td>
</tr>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>K1</td>
</tr>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>K1</td>
</tr>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>K1</td>
</tr>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>K1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>L1 Presence of Detectors</th>
<th>L2 Detector Type</th>
<th>L3 Detector Power Supply</th>
<th>L4 Detector Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>In area of the fire.</td>
<td>1 Smoke</td>
<td>1 Battery only</td>
<td>1 Fire too small to activate</td>
</tr>
<tr>
<td>N None Present</td>
<td>2 Heat</td>
<td>2 Hardwire only</td>
<td>Complete Block L4</td>
</tr>
<tr>
<td>1 Present</td>
<td>3 Combination smoke and heat</td>
<td>3 Plug-in</td>
<td></td>
</tr>
<tr>
<td>U Undetermined</td>
<td>4 Sprinkler, water flow detection</td>
<td>4 Hardwire with battery</td>
<td></td>
</tr>
<tr>
<td>5 More than one type present</td>
<td>5 Mechanical</td>
<td>5 Plug-in with battery</td>
<td></td>
</tr>
<tr>
<td>0 Other</td>
<td>6</td>
<td>6 Mechanical</td>
<td></td>
</tr>
<tr>
<td>U Undetermined</td>
<td>7 Multiple detectors &amp; power supplies</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Other</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>Undetermined</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M1 Presence of Automatic Extinguishing System</th>
<th>M2 Type of Automatic Extinguishing System</th>
<th>M3 Operation of Automatic Extinguishing System</th>
<th>M4 Number of Sprinkler Heads Operating</th>
<th>M5 Reason for Automatic Extinguishing System Failure</th>
</tr>
</thead>
<tbody>
<tr>
<td>If fire was within designed range of AES</td>
<td>Required if detector failed to operate</td>
<td>Required if fire was within designed range</td>
<td>Required if system operated</td>
<td>Required if system failed or not effective</td>
</tr>
<tr>
<td>N None Present</td>
<td>Present</td>
<td>Operated/effective (go to M4)</td>
<td>Number of sprinklers heads operating</td>
<td>System shut off</td>
</tr>
<tr>
<td>1 Present</td>
<td>U Undetermined</td>
<td>Operated/not effective (go to M4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Dry-pipe sprinkler</td>
<td>Failed to activate</td>
<td>Fire too small to activate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Other sprinkler system</td>
<td>Failed to operate (go to M5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Dry chemical system</td>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Foam system</td>
<td>Undetermined</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Halogen-type system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Carbon dioxide (CO2) system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 Other special hazard system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U Undetermined</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N</th>
<th>NFIRS-3 Revision 01/01/04</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>NFIRS Version 5.0 Design Documentation - January 2005</td>
</tr>
</tbody>
</table>
FIGURE 3-6. NFIRS-4 Civilian Fire Casualty Form

<table>
<thead>
<tr>
<th>A</th>
<th>Incident Date</th>
<th>Station</th>
<th>Incident Number</th>
<th>Exposure</th>
<th>Enter up to three contributing factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Injured Person</td>
<td>Gender</td>
<td>1 Male 2 Female</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Casualty Number</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Age or Date of Birth</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Race</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Affiliation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Date and Time of Injury</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Severity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Cause of Injury</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>Human Factors Contributing to Injury</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>Factors Contributing to Injury</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>Activity When Injured</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>Location at Time of Incident</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>Primary Apparent Symptom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>Primary Area of Body Injured</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Disposition</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NFIRS Version 5.0 Design Documentation - January 2005
**FIGURE 3-7. NFIRS-5 Fire Service Casualty Form**

<table>
<thead>
<tr>
<th>Column A</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDCD</td>
<td>Location</td>
</tr>
<tr>
<td>State</td>
<td></td>
</tr>
<tr>
<td>Incident Date</td>
<td></td>
</tr>
<tr>
<td>Station</td>
<td></td>
</tr>
<tr>
<td>Incident Number</td>
<td></td>
</tr>
<tr>
<td>Exposure</td>
<td></td>
</tr>
<tr>
<td>Change</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column B</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injured Person</td>
<td></td>
</tr>
<tr>
<td>Identification Number</td>
<td></td>
</tr>
<tr>
<td>First Name</td>
<td></td>
</tr>
<tr>
<td>Last Name</td>
<td></td>
</tr>
<tr>
<td>Suffix</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column C</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casualty Number</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column D</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td></td>
</tr>
<tr>
<td>Date of Birth</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column E</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and Time of Injury</td>
<td></td>
</tr>
<tr>
<td>Date of Injury</td>
<td></td>
</tr>
<tr>
<td>Time of Injury</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column F</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responses</td>
<td></td>
</tr>
<tr>
<td>Number of prior responses during past 24 hours</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column G</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1 Usual Assignment</td>
<td></td>
</tr>
<tr>
<td>G2 Physical Condition Just Prior to Injury</td>
<td></td>
</tr>
<tr>
<td>G3 Severity</td>
<td></td>
</tr>
<tr>
<td>G4 Taken To</td>
<td></td>
</tr>
<tr>
<td>G5 Activity at Time of Injury</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column H</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1 Primary Apparent Symptom</td>
<td></td>
</tr>
<tr>
<td>H2 Primary Part of Body Injured</td>
<td></td>
</tr>
<tr>
<td>H3 Specific Location Where Injury Occurred</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column I</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I1 Cause of Firefighter Injury</td>
<td></td>
</tr>
<tr>
<td>I2 Factor Contributing to Injury</td>
<td></td>
</tr>
<tr>
<td>I3 Object Involved in Injury</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column J</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1 Where Injury Occurred</td>
<td></td>
</tr>
<tr>
<td>J2 Story Where Injury Occurred</td>
<td></td>
</tr>
<tr>
<td>J3 Specific Location Where Injury Occurred</td>
<td></td>
</tr>
<tr>
<td>J4 Vehicle Type</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**

If protective equipment failed and was a factor in this injury, please complete the other side of this form.
### FIGURE 3-8. NFIRS-5 Fire Service Casualty Form (side 2)

**K1** Did protective equipment fail and contribute to the injury?  
Please complete the remainder of this form ONLY if you answer YES.

<table>
<thead>
<tr>
<th>Equipment Manufacturer, Model and Serial Number</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serial Number:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**K2** Protective Equipment Item

<table>
<thead>
<tr>
<th>Head or Face Protection</th>
<th>Coat, Shirt, or Trousers</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Helmet</td>
<td>21 Protective coat</td>
</tr>
<tr>
<td>12 Full face protector</td>
<td>22 Protective trousers</td>
</tr>
<tr>
<td>13 Partial face protector</td>
<td>23 Uniform shirt</td>
</tr>
<tr>
<td>14 Goggles/eye protection</td>
<td>24 Uniform T-shirt</td>
</tr>
<tr>
<td>15 Hood</td>
<td>25 Uniform trousers</td>
</tr>
<tr>
<td>16 Ear protector</td>
<td>26 Uniform coat or jacket</td>
</tr>
<tr>
<td>17 Neck protector</td>
<td>27 Coveralls</td>
</tr>
<tr>
<td>10 Other</td>
<td>28 Apron or gown</td>
</tr>
<tr>
<td></td>
<td>20 Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boots or Shoes</th>
<th>31 Knee length boots with steel baseplate and steel toes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32 Knee length boots with steel toes only</td>
</tr>
<tr>
<td></td>
<td>33 3/4 length boots with steel baseplate and steel toes</td>
</tr>
<tr>
<td></td>
<td>34 3/4 length boots with steel toes only</td>
</tr>
<tr>
<td></td>
<td>35 Boots without steel baseplate and steel toes</td>
</tr>
<tr>
<td></td>
<td>36 Safety shoes with steel baseplate and steel toes</td>
</tr>
<tr>
<td></td>
<td>37 Safety shoes with steel toes only</td>
</tr>
<tr>
<td></td>
<td>38 Non-safety shoes</td>
</tr>
<tr>
<td></td>
<td>39 Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Respiratory Protection</th>
<th>41 SCBA (demand) open circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>42 SCBA (positive pressure) open circuit</td>
</tr>
<tr>
<td></td>
<td>43 SCBA closed circuit</td>
</tr>
<tr>
<td></td>
<td>44 Not self-contained</td>
</tr>
<tr>
<td></td>
<td>45 Cartridge respirator</td>
</tr>
<tr>
<td></td>
<td>46 Dust or particle mask</td>
</tr>
<tr>
<td></td>
<td>47 Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hand Protection</th>
<th>51 Firefighter gloves with wristlets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>52 Firefighter gloves without wristlets</td>
</tr>
<tr>
<td></td>
<td>53 Work gloves</td>
</tr>
<tr>
<td></td>
<td>54 HazMat gloves</td>
</tr>
<tr>
<td></td>
<td>55 Medical gloves</td>
</tr>
<tr>
<td></td>
<td>50 Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special Equipment</th>
<th>61 Proximity suit for entry</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>62 Proximity suit for non-entry</td>
</tr>
<tr>
<td></td>
<td>63 Totally encapsulated, reusable chemical suit</td>
</tr>
<tr>
<td></td>
<td>64 Totally encapsulated, disposable chemical suit</td>
</tr>
<tr>
<td></td>
<td>65 Partially encapsulated, reusable chemical suit</td>
</tr>
<tr>
<td></td>
<td>66 Partially encapsulated, disposable chemical suit</td>
</tr>
<tr>
<td></td>
<td>67 Flash protection suit</td>
</tr>
<tr>
<td></td>
<td>68 Flight or jump suit</td>
</tr>
<tr>
<td></td>
<td>69 Brush suit</td>
</tr>
<tr>
<td></td>
<td>70 Exposure suit</td>
</tr>
<tr>
<td></td>
<td>71 Self-contained underwater breathing apparatus (SCUBA)</td>
</tr>
<tr>
<td></td>
<td>72 Life preserver</td>
</tr>
<tr>
<td></td>
<td>74 Life belt or ladder belt</td>
</tr>
<tr>
<td></td>
<td>75 Personal alert safety system (PASS)</td>
</tr>
<tr>
<td></td>
<td>76 Radio distress device</td>
</tr>
<tr>
<td></td>
<td>77 Personal lighting</td>
</tr>
<tr>
<td></td>
<td>78 Fire shelter or tent</td>
</tr>
<tr>
<td></td>
<td>79 Vehicle safety belt</td>
</tr>
<tr>
<td></td>
<td>80 Special equipment, other</td>
</tr>
<tr>
<td></td>
<td>00 Protective equipment, other</td>
</tr>
</tbody>
</table>

**K3** Protective Equipment Problem

Check one box to indicate the main problem that occurred.

| 11 Burned  |
| 12 Melted  |
| 21 Fractured, cracked or broken |
| 22 Punctured |
| 23 Scratched |
| 24 Knocked off |
| 25 Cut or ripped |
| 31 Trapped steam or hazardous gas |
| 32 Insufficient insulation |
| 33 Object fell in or onto equipment item |
| 41 Failed under impact |
| 42 Face piece or hose detached |
| 43 Exhalation valve inoperative or damaged |
| 44 Harness detached or separated |
| 45 Regulator failed to operate |
| 46 Regulator damaged by contact |
| 47 Problem with admissions valve |
| 48 Alarm failed to operate |
| 49 Alarm damaged by contact |
| 51 Supply cylinder or valve failed to operate |
| 52 Supply cylinder/valve damaged by contact |
| 53 Supply cylinder—insufficient air/oxygen |
| 94 Did not fit properly |
| 95 Not properly serviced or stored prior to use |
| 96 Not used for designed purpose |
| 97 Not used as recommended by manufacturer |
| 00 Other equipment problem |
| UU Undetermined |

**K4** Equipment Manufacturer, Model and Serial Number

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### FIGURE 3-9. NFIRS-6 Emergency Medical Services (EMS) Form

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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### FIGURE 3-10. NFIRS-7 Hazardous Materials (HazMat) Form

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>Incident Date</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>HazMat ID</td>
</tr>
<tr>
<td><strong>C1</strong></td>
<td>Container Type</td>
</tr>
<tr>
<td><strong>C2</strong></td>
<td>Estimated Container Capacity</td>
</tr>
<tr>
<td><strong>C3</strong></td>
<td>Units: Capacity</td>
</tr>
<tr>
<td><strong>D1</strong></td>
<td>Estimated Amount Released</td>
</tr>
<tr>
<td><strong>D2</strong></td>
<td>Units: Released</td>
</tr>
<tr>
<td><strong>E2</strong></td>
<td>Released Into</td>
</tr>
<tr>
<td><strong>F1</strong></td>
<td>Released From</td>
</tr>
<tr>
<td><strong>F2</strong></td>
<td>Population Density</td>
</tr>
<tr>
<td><strong>F3</strong></td>
<td>More hazardous materials? Use additional sheets.</td>
</tr>
<tr>
<td><strong>G1</strong></td>
<td>Area Affected</td>
</tr>
<tr>
<td><strong>G2</strong></td>
<td>Area Evacuated</td>
</tr>
<tr>
<td><strong>G3</strong></td>
<td>Estimated Number of People Evacuated</td>
</tr>
<tr>
<td><strong>G4</strong></td>
<td>Estimated Number of Buildings Evacuated</td>
</tr>
<tr>
<td><strong>H</strong></td>
<td>HazMat Actions Taken</td>
</tr>
<tr>
<td><strong>I</strong></td>
<td>If fire or explosion is involved with a release, which occurred first?</td>
</tr>
<tr>
<td><strong>K</strong></td>
<td>Factors Contributing to Release</td>
</tr>
<tr>
<td><strong>L</strong></td>
<td>Factors Affecting Mitigation</td>
</tr>
<tr>
<td><strong>M</strong></td>
<td>Equipment Involved in Release</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>Mobile Property Involved in Release</td>
</tr>
<tr>
<td><strong>O</strong></td>
<td>HazMat Disposition</td>
</tr>
<tr>
<td><strong>P</strong></td>
<td>HazMat Civilian Casualties</td>
</tr>
</tbody>
</table>

**Technical Documentation - System Modules**

**NFIRS Version 5.0 Design Documentation - January 2005**

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### FIGURE 3-11: NFIRS-8 Wildland Fire Form

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Incident Number, Station, Date, Time, Location, Ownership, Type of Right-of-Way, Elevation, Source of Ignition, Wildland Fire Cause, Human Factors Contributing to Ignition, Number of Buildings Ignited, Number of Buildings Threatened, Total Acres Burned, Wildland Fire Form, NFIRS-8 Revision 01/01/04</td>
</tr>
<tr>
<td>B</td>
<td>Area Type, Range, Township, Section, Subsection, Meridian, Latitude, Longitude, North, South, East, West, Fuel Moisture, Relative Humidity, Fire Danger Rating, Heat Source, Mobile Property Type, Equipment Involved in Ignition</td>
</tr>
<tr>
<td>C</td>
<td>Weather Type, Wind Speed (mph), Air Temperature, Relative Humidity, Fuel Moisture, Fire Danger Rating, Weather Information</td>
</tr>
<tr>
<td>D</td>
<td>Wildland Fire Cause, Human Factors Contributing to Ignition, Factors Contributing to Ignition, Fire Suppression Factors, None</td>
</tr>
<tr>
<td>E</td>
<td>None</td>
</tr>
<tr>
<td>F</td>
<td>None</td>
</tr>
<tr>
<td>G</td>
<td>None</td>
</tr>
<tr>
<td>H</td>
<td>None</td>
</tr>
<tr>
<td>I</td>
<td>None</td>
</tr>
<tr>
<td>J</td>
<td>None</td>
</tr>
<tr>
<td>K</td>
<td>None</td>
</tr>
<tr>
<td>L</td>
<td>Person Responsible for Fire, Gender of Person Involved, Age or Date of Birth, Activity of Person Involved, Leisure, Economic, Fire Behavior, NFIRS-8 Revision 01/01/04</td>
</tr>
<tr>
<td>M</td>
<td>None</td>
</tr>
<tr>
<td>N</td>
<td>None</td>
</tr>
</tbody>
</table>

#### Notes:
- **Ownership**:
  - Federal
  - State or province
  - County or parish
  - City, town, village, local

- **Public**:
  - Tax paying
  - Non-tax paying

- **Private**:
  - Tax paying
  - Non-tax paying

- **Military**

- **Other**

- **Age in Years**
- **Date of Birth**
- **Month**, **Day**, **Year**

- **Activity of Person Involved**

- **NFDRS Fuel Model at Origin**
  - Enter the code and the descriptor corresponding to the NFDRS Fuel Model at Origin.
### FIGURE 3-12. NFIRS-9 Apparatus or Resources Form

<table>
<thead>
<tr>
<th>Apparatus or Resources</th>
<th>Dates and Times</th>
<th>Number of People</th>
<th>Apparatus Use</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dispatch</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arrival</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clear</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Apparatus or Resource Type**
- Aircraft
  - 41 Aircraft: fixed-wing tanker
  - 42 Helitanker
  - 43 Helicopter
  - 40 Aircraft, other
  - Marine Equipment
  - 51 Fire boat with pump
  - 52 Boat, no pump
  - 50 Marine equipment, other
- Support Equipment
  - 61 Breathing apparatus support
  - 62 Light and air unit
  - 60 Support apparatus, other
- Ground Fire Suppression
  - 11 Engine
  - 12 Truck or aerial
  - 13 Quint
  - 14 Tanker and pumper combination
  - 16 Brush truck
  - 17 ARFF (aircraft rescue and firefighting)
  - 10 Ground fire suppression, other
- Heavy Ground Equipment
  - 21 Dozer or plow
  - 22 Tractor
  - 24 Tanker or tender
  - 26 Heavy ground equipment, other
- Medical and Rescue
  - 71 Rescue unit
  - 72 Urban search and rescue unit
  - 73 High-angle rescue unit
  - 75 BLS unit
  - 76 ALS unit
  - 70 Medical and rescue unit, other
- Other
  - 91 Mobile command post
  - 92 Chief officer car
  - 93 HazMat unit
  - 94 Type I hand crew
  - 95 Type II hand crew
  - 99 Privately owned vehicle
  - 00 Other apparatus/resources

**Additional Information**
- Use codes listed below
- Check ONE box for each apparatus to indicate its main use at the incident
- List up to 4 actions for each apparatus
FIGURE 3-13. NFIRS-10 Personnel Form

<table>
<thead>
<tr>
<th>ID</th>
<th>Type</th>
<th>Dates and Times</th>
<th>Number of People</th>
<th>Apparatus Use</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Personnel ID | Name | Rank or Grade | Attend | Action Taken | Action Taken | Action Taken | Action Taken |
-------------|------|---------------|--------|--------------|--------------|--------------|--------------|
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |

Apparatus or Resources

- Dispatch
- Arrival
- Clear

Sent: 

<table>
<thead>
<tr>
<th>Type</th>
<th>ID</th>
<th>Dates and Times</th>
<th>Number of People</th>
<th>Apparatus Use</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Personnel ID | Name | Rank or Grade | Attend | Action Taken | Action Taken | Action Taken | Action Taken |
-------------|------|---------------|--------|--------------|--------------|--------------|--------------|
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |

<table>
<thead>
<tr>
<th>Type</th>
<th>ID</th>
<th>Dates and Times</th>
<th>Number of People</th>
<th>Apparatus Use</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Personnel ID | Name | Rank or Grade | Attend | Action Taken | Action Taken | Action Taken | Action Taken |
-------------|------|---------------|--------|--------------|--------------|--------------|--------------|
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
|             |      |               |        |              |              |              |              |
FIGURE 3-14. NFIRS-11 Arson Form

<table>
<thead>
<tr>
<th>A</th>
<th>Case Status</th>
<th>Available of Material First Ignited</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>investigation open</td>
<td>Transported to scene</td>
</tr>
<tr>
<td></td>
<td>investigation closed</td>
<td>Available at scene</td>
</tr>
<tr>
<td></td>
<td>investigation inactive</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B</th>
<th>Agency Referred To</th>
<th>Gateway Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C</th>
<th>Suspected Motivation Factors</th>
<th>Incendiary Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check up to three factors</td>
<td>Select one from each category</td>
</tr>
<tr>
<td></td>
<td>Extortion</td>
<td>Hate crime</td>
</tr>
<tr>
<td></td>
<td>Labor unrest</td>
<td>Institutional</td>
</tr>
<tr>
<td></td>
<td>Insurance fraud</td>
<td>Societal</td>
</tr>
<tr>
<td></td>
<td>Intimidation</td>
<td>Protest</td>
</tr>
<tr>
<td></td>
<td>Void contract/lease</td>
<td>Civil unrest</td>
</tr>
<tr>
<td></td>
<td>Personal</td>
<td>Fireplay/curiosity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D</th>
<th>Extent of Fire Involvement on Arrival</th>
<th>Other Investigative Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Check all that apply</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code violations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Structure for sale</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Structure vacant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other crimes involved</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Illicit drug activity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Change in insurance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Financial problem</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Criminal/civil actions pending</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E</th>
<th>Entry Method</th>
<th>Extent of Fire Involvement on Arrival</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F</th>
<th>Other Investigative Information</th>
<th>Property Ownership</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check all that apply</td>
<td>Private</td>
</tr>
<tr>
<td></td>
<td>Code violations</td>
<td>City, town, village, local</td>
</tr>
<tr>
<td></td>
<td>Structure for sale</td>
<td>County or parish</td>
</tr>
<tr>
<td></td>
<td>Structure vacant</td>
<td>State or province</td>
</tr>
<tr>
<td></td>
<td>Other crimes involved</td>
<td>Federal</td>
</tr>
<tr>
<td></td>
<td>Illicit drug activity</td>
<td>Foreign</td>
</tr>
<tr>
<td></td>
<td>Change in insurance</td>
<td>Military</td>
</tr>
<tr>
<td></td>
<td>Financial problem</td>
<td>Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>G</th>
<th>Initial Observations</th>
<th>Laboratory Used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Check all that apply</td>
<td>Check all that apply</td>
</tr>
<tr>
<td></td>
<td>Windows</td>
<td>5 Fire department forced entry</td>
</tr>
<tr>
<td></td>
<td>Doors ajar</td>
<td>6 Entry force prior to FD arrival</td>
</tr>
<tr>
<td></td>
<td>Doors locked</td>
<td>7 Security system activated</td>
</tr>
<tr>
<td></td>
<td>Doors unlocked</td>
<td>8 Security system present (not activated)</td>
</tr>
<tr>
<td></td>
<td>Local</td>
<td>Other</td>
</tr>
<tr>
<td></td>
<td>State</td>
<td>Private</td>
</tr>
</tbody>
</table>

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FIGURE 3-15. NFIRS-11 Arson Form (side2)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFID</td>
<td>State</td>
<td>Incident Date</td>
<td>Station</td>
<td>Incident Number</td>
<td>Exposure</td>
<td>Details</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Complete this section if the person involved in the ignition of the fire was a child or Juvenile under the age of 18**

**M1** Subject Number

**M2** Age or Date of Birth

- Age (in years)
- Month
- Day
- Year

**M3** Gender

- 1 Male
- 2 Female

**M4** Race

- 1 White
- 2 Black, African American
- 3 American Indian, Alaska Native
- 4 Asian
- 5 Native Hawaiian, Other Pacific Islander
- 6 Other, multiracial
- 0 Undetermined

**M5** Ethnicity

- 1 Hispanic or Latino
- 0 Non Hispanic or Latino

**M6** Family Type

- 1 Single parent
- 2 Foster parent(s)
- 3 Two-parent family
- 4 Extended family
- N No family unit
- 0 Other family type
- 6 Transiency
- U Unknown

**M7** Motivation/Risk Factors

- 1 Mild curiosity about fire
- 2 Moderate curiosity about fire
- 3 Extreme curiosity about fire
- 4 Diagnosed (or suspected) ADD/ADHD
- 5 History of trouble outside school
- 6 History of stealing or shoplifting
- 7 History of physically assaulting others
- 8 History of fireplay or firesetting
- 9 Transiency
- 0 Other
- U Unknown

**M8** Disposition of Person Under 18

- 1 Handled within department
- 2 Released to parent/guardian
- 3 Referred to other authority
- 4 Referred to treatment/counseling program
- 5 Arrested, charged as adult
- 6 Referred to firesetter intervention program
- 0 Other
- U Unknown

**N** Remarks (local use)

---

NFIRS Version 5.0 Design Documentation - January 2005
### FIGURE 3-16. NFIRS 1S - Supplemental Form

<table>
<thead>
<tr>
<th>K1 Person/Entity Involved</th>
<th>Local Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Name (if applicable)</td>
<td>Area Code</td>
</tr>
<tr>
<td>Last Name</td>
<td>Phone Number</td>
</tr>
<tr>
<td>First Name</td>
<td>Suffix</td>
</tr>
<tr>
<td>Mr., Ms., Mrs.</td>
<td>Street Type</td>
</tr>
<tr>
<td>Number</td>
<td>Suffix</td>
</tr>
<tr>
<td>Prefix</td>
<td>Street or Highway</td>
</tr>
<tr>
<td>Apt./Suite/Room</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td>ZIP Code</td>
</tr>
<tr>
<td>State</td>
<td></td>
</tr>
</tbody>
</table>

Check this box if same address as incident location. Then skip these three duplicate address lines.
FIGURE 3-17. NFIRS 1S - Supplemental Form (side 2)

<table>
<thead>
<tr>
<th></th>
<th>Supplemental Special Studies</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Special Study ID#</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Special Study Value</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Special Study ID#</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Special Study Value</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Special Study ID#</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Special Study Value</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Special Study ID#</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Special Study Value</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:
Local Option
Module Logic Flow

This section provides a high level graphical overview of the system flow through each of the NFIRS system modules. Major field navigation and key instructional points are documented.

Each of the NFIRS 5.0 modules can be described as belonging to one of two categories; required or optional. Required modules must be completed when dictated by the type of incident. These module are:

The Basic Incident Module
Must be completed for every incident responded to.

The Fire Module
Must be completed for each fire responded to (except for confined fires).

The Structure Fire Module
Must be completed for all structure files responded to (the first field only is required non-building structures).

Civilian Fire Casualty Module
Must be completed for each civilian fire casualty.

Fire Service Casualty Module
Must be completed for each fire service casualty.

The rest of the NFIRS 5.0 module are optional and their use or non use is decided on a state by state or department by department basis. They are:

EMS Module
Department use is optional. May be state required.

HazMat Module
Department use is optional. May be state required.

Wildland Module
Department use is optional. May be state required.

Apparatus Module
Department use is optional.

Personnel Module
Department use is optional.

Arson Module
Department use is optional. May be state required.
If Combination of Fire, Hazmat and EMS occurs at one incident, the Incident Type is always a fire (100 series) with associated Hazmat and EMS.

If Apparatus or Personnel Module is used, roll-up data here.
FIGURE 3-19. Basic Module Logic Flow (continued)

- **1H1** Casualties
- **1H2** Detector Alerted Occupant → Includes fire and smoke detectors
- **1H3** Hazmat Released → If > 0, Hazmat Module Required
- **1I** Mixed Use
- **1J** Property Use
- **1K1** Person / Entity Involved
- **1K2** Owner
- **1L1** Remarks
- **1M** Authorization

End
FIGURE 3-20. Fire Module Logic Flow

Fire Module Flow

- 2 - Fire Module
  - 2A - Header
  - 2B - Property Details
    - 2B1 - Area of Origin
    - 2B2 - Heat Source
    - 2B3 - Item 1st Ignited
      - 2B31 - Type of Material
  - 2C - On-site Materials / Products (3)
  - 2D - Ignition
    - 2D1 - Cause of Ignition
    - 2D2 - Factors Contributing (3)
    - 2D3 - Human Factors
  - 2E1 - Equipment Involved
    - 2E1 - Equipment Power Source
    - 2E3 - Equipment Portability

- If FPU in 400's, indicate # of residential units in building
- Check boxes for any significant materials or property whether involved or not
- Check box if fire spread from confined object of origin
- Required if not an exposure fire
- Required if not an exposure fire
- If age was a factor, record estimated age. Check all boxes that apply
- 2 - 2
FIGURE 3-21. Fire Module Logic Flow (continued)

2G Fire Suppression Factors (3)

2H1 Mobile Property

If involved in ignition

2H2 Mobile Property Description

2 Pre-Fire Plan Available

Local use

End
Structure Fire Module Flow

3 Structure Fire Module

If enclosed

3I1 Structure Type

3I2 Building Status

3I3 Building Height

3I4 Main Floor Size

3J1 Fire Origin

3J2 Fire Spread

3J3 # Stories Damaged by Flame

3K Material Contributing to Flame Spread

If no, go to section L

If Spread

3K1 Item

3K2 Type of Material

3L1 Presence of Detector

If no, go to section M, following page

Yes

3L2 Detector Type

3 - 2
FIGURE 3-23. Structure Fire Module Logic Flow (continued)

3L3 | Detector Power Supply
3L4 | Detector Operation
3L5 | Detector Effectiveness
3L6 | Detector Failure Reason
3M1 | Extinguishment Systems
3M2 | Type
3M3 | Operation
3M4 | # of Heads Operating
3M5 | System Failure Reason

AES Present

AES Not Present
Civilian Fire Casualty Module Flow

4 | Civilian Fire Casualty Module

4A | Header

4B | Injured Person (Multiple)

4C | Casualty Number

4D | Age / Birth Date

4E1 | Race

4E2 | Ethnicity

4F | Affiliation

4G | Date

4H | Severity

4I | Cause of Injury

4J | Contributing Human Factors

4K | Other Contributing Factors

4L | Activity When Injured

4 - 2

Indicate all that apply

Indicate all that apply
FIGURE 3-25. Civilian Fire Casualty Module Logic Flow (continued)

- 4M1: Location at Incident Time
- 4M2: General Location at Injury
- 4M3: Story at Time of Injury
- 4M4: Specific Location
- 4N: Primary Apparant Symptom
- 4O: Primary Part of Body Injured
- 4P: Disposition

End
FIGURE 3-26. Fire Service Casualty Module Logic Flow

Fire Service Casualty Module Flow

- Fire Service Casualty Module
  - Header
  - Injured Person, Sex, Career Status
    - Casualty Number (Multiple)
  - Age / Birth Date
  - Date / Time of Injury
  - Responses Last 24 hrs.
  - Usual Assignment
    - Prior Physical Condition
    - Severity
    - Taken To
  - Activity At Time of Injury
    - Primary Apparent Symptom
    - Primary Injury Body Part
    - Cause of FF Injury

5 - 2
FIGURE 3-27. Fire Service Casualty Module Logic Flow (continued)

If Structure Fire

If Injured in a Vehicle

Did Protective Equipment Fail and Contribute to the Injury?

No

Yes

Protective Equipment Item

Protective Equipment Problem

Equip. Manufacturer Info.

End
FIGURE 3-28. Emergency Medical Services Module Logic Flow

EMS Module Flow

- EMS Module
  - Header
  - Patient Number (Multiple)
    - Times
  - Provider Impression
    - Age or Date of Birth
    - Gender
    - Race
    - Ethnicity
    - Human Factors (Multiple)
      - Other Factors
  - Decision
    - Illness
    - Injury
      - Body Site of Injury (Multiple)
      - Injury Type (Multiple)
      - Cause of Injury / Illness

6 - 2
FIGURE 3-29. Emergency Medical Services Module Logic Flow (continued)

6 - 1

6I Procedures Used (Multiple)

6J Safety Equipment

6K Cardiac Arrest

6L1 Initial Level of Provider

6L2 Highest Level of Provider on Scene

6M Patient Status

6N Disposition

End
FIGURE 3-30. Hazardous Materials Module Logic Flow

HazMat Module Flow

7 HazMat Module

7A Header

7B HazMat ID (Multiple)

7C1 Container Type

7C2 Estimated Container Capacity

7C3 Units: Capacity

7D1 Estimated Amount Released

7D2 Units: Released

7E1 Physical State When Released

7E2 Released Into

7F1 Released From

7F2 Population Density

7G1 Area Affected

7G2 Area Evacuated

Complete Items 7F1-7P Only For First Hazardous Material Released
FIGURE 3-31. Hazardous Materials Module Logic Flow (continued)

- 7G3 Estimated Number of People Evacuated
- 7G4 Estimated Number of Buildings Evacuated
- 7H HazMat Action Taken (3)
- 7J Cause of Release
- 7K Factors Contributing to Release (3)
- 7L Mitigating Factors or Impediments (3)
- 7M Equipment Involved In Release
- 7N Mobile Property Involved in Release
- 7O HazMat Disposition
- 7P HazMat Civilian Casualties
FIGURE 3-32. Wildland Fire Module Logic Flow

Wildland Fire Module Flow

- **Wildland Fire Module**
- **Header**
- **Alternate Location Specification**
- **Area Type**
- **Wildland Fire Cause**
- **Human Factors Contributing To Ignition**
- **Factors Contributing To Ignition (2)**
- **Fire Suppression Factors (3)**
- **Heat Source**
- **Mobile Property Type**
- **Equipment Involved In Ignition**
- **Weather Information**
- **Number of Buildings Involved**
- **Number of Buildings Threatened**

If NFDRS Weather Station entered, remainder of Block is not required.
FIGURE 3-33. Wildland Fire Module Logic Flow (continued)

8 - 1

8I3 Total Acres Burned

8I4 Primary Crops Burned (3)

8J Property Management

8K NFDRS Fuel Model At Origin

8L1 Person Responsible For Fire

Responsible Person Identified?

Yes

8L2 Gender of Person Involved

8L3 Age or Date of Birth

8L4 Activity of Person

8M Right of Way

8N Fire Behavior

End

Select ownership at origin & % of all properties burned
FIGURE 3-34. Apparatus or Resources Module Logic Flow

Apparatus or Resources Module Flow

- Header
- Apparatus or Resource ID / Type (multiple)
- Dates and Times
- Dispatch
- Arrival
- Clear
- Sent
- Number of People
- Use
- Actions Taken (4)
- End
Personnel Module Flow

FIGURE 3-35. Personnel Module Logic Flow

Personnel Module Flow

10 Personnel Module Flow

10A Header

10B Apparatus or Resource ID / Type (multiple)

10 Dates and Times

10 Dispatch

10 Arrival

10 Clear

10 Sent

10 Number of People

10 Use

10 Actions Taken (4)

10 Personnel ID (multiple)

10 Name

10 Rank or Grade

10 Attend

10 Actions Taken (4) → End
Arson Module Flow
FIGURE 3-37. Arson Module Flow (continued)

11M1 Subject Number

11M2 Age or Date of Birth

11M3 Gender

11M4 Race

11M5 Ethnicity

11M6 Family Type

11M7 Motivation / Risk Factors

11M8 Disposition

11N Remarks

End

Multiple:
Complete Items 11A and 11M1-11M8 for Each Juvenile Involved in Ignition
Supplemental Module Flow


**Edit Requirements**

This section defines all edit requirements for the NFIRS 5.0 system.

The edit requirements are divided into two sections, the Base Edit Requirements, which begin on the following page, and the Relational Edit Requirements which begin on page 99.

Each field in the Base Edit Requirements that has an associated Relational Edit Requirement lists the number of the cross referenced edit in the “Cross Edits” column of the Base Edit Requirements.
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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. All coded fields in the database will carry one more additional space than defined above for user defined code expansion.
5. Validity check will be performed on all date fields in the form of YYYYMDDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 2 of 33)

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**Key**
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<td>If Resource flag = true, then import totals from either Apparatus of Personnel Module.</td>
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**Key**

1. Element Types: (D)ata, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
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6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
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<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<td>Numeric</td>
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Key
1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. All coded fields in the database will carry one more additional space than defined above for user defined code expansion.
5. Validity check will be performed on all date fields in the form of YYYYMMDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 6 of 33)

<table>
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<tr>
<th>Module No.</th>
<th>Line</th>
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<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
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**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
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6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
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<th>Cross Fields</th>
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**TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 7 of 33)**

**Key**

1. Element Types: (D)data, (S)ystem, (I)structional, (L)ook-up
2. Field Types: (A)lphabetic, (C)coded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y)Yes/No Flag
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<th>Default</th>
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<td>8</td>
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<td>YYYYMMDD/</td>
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<td>YYYYMMDD</td>
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<td>This field is the Alarm Date (is the same field).</td>
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<td>Y or N</td>
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<td># of Buildings Involved</td>
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<td>Collected for each exposure fire (if any).</td>
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<td>Y or N</td>
<td>Trigger the Wildland Form.</td>
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<td>45</td>
<td>On-Site flag</td>
<td>If flag = false, then required. National codes plus one digit (NNNL): display national field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 C D</td>
<td>Storage Use #1 (BPPR)</td>
<td>2</td>
<td>C D</td>
<td>Blank</td>
<td>1,2,3,4</td>
<td>46</td>
<td>On-Site Material</td>
<td>If Flag = false then required. National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 C D</td>
<td>Material # 2</td>
<td>4</td>
<td>C D</td>
<td>Blank</td>
<td>Valid code</td>
<td>45</td>
<td>On-Site flag</td>
<td>National codes plus one digit (NNNL): display national field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 C D</td>
<td>Storage Use #2 (BPPR)</td>
<td>2</td>
<td>C D</td>
<td>Blank</td>
<td>1, 2, 3, 4</td>
<td>46</td>
<td>On-Site Material</td>
<td>If Flag = false then required. National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 C D</td>
<td>Material # 3</td>
<td>4</td>
<td>C D</td>
<td>Blank</td>
<td>Valid code</td>
<td>45</td>
<td>On-Site flag</td>
<td>National codes plus one digit (NNNL): display national field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up.
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y)Yes/No Flag
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### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 9 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line No.</th>
<th>Element Type</th>
<th>Element</th>
<th>Size/Type</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td>C</td>
<td>D</td>
<td>Storage Use #3 (BPPR)</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>1, 2, 3, 4</td>
<td>46 On-Site Material</td>
<td>If Flag = false then required. National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>D</td>
<td>Ignition</td>
<td>1 D Area of Fire Origin</td>
<td>3</td>
<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>Valid code</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
<td></td>
</tr>
<tr>
<td>2</td>
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<td>D</td>
<td>Heat Source</td>
<td>2 D Heat Source</td>
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<td>C</td>
<td>Y</td>
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<td>Valid code</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>D</td>
<td>Item First Ignited</td>
<td>3 D Item First Ignited</td>
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<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>Valid code</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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</tr>
<tr>
<td>2</td>
<td></td>
<td>D</td>
<td>Type of Material</td>
<td>4 D Type of Material</td>
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<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
<td></td>
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<tr>
<td>2</td>
<td></td>
<td>E</td>
<td>Cause of Ignition</td>
<td>1 E Exposure Report flag</td>
<td>1</td>
<td>Y</td>
<td>D</td>
<td>Blank</td>
<td>Y or N</td>
<td>Check to see if Exposure is greater than 000.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>E</td>
<td>Cause of Ignition</td>
<td>2 E Cause of Ignition</td>
<td>2</td>
<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>Valid code</td>
<td>Blank when exposure is greater than 0. National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>E</td>
<td>Factor Contributing to Ignition</td>
<td>2 E Factor Contributing to Ignition</td>
<td>3</td>
<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>Valid code</td>
<td>If Exposure &gt; 0 then Code = 71 and Factor Contributing flag is true. National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>E</td>
<td>Factor Contributing to Ignition</td>
<td>2 E Factor Contributing to Ignition</td>
<td>3</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>If Exposure &gt; 0 then Code = Blank and Factor Contributing flag is true. National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>E</td>
<td>Human Factors</td>
<td>3 E Human Factors Contributing None</td>
<td>1</td>
<td>C</td>
<td>D</td>
<td>Blank</td>
<td>Code = N</td>
<td>At least one entry (including &quot;none&quot;) is required.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>E</td>
<td>Human Factors Contributing None</td>
<td>2 E Human Factors - Asleep</td>
<td>2</td>
<td>C</td>
<td>D</td>
<td>Blank</td>
<td>Code = 1</td>
<td>Human Factor Flag = true. National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>E</td>
<td>Human Factors - Asleep</td>
<td>2 E Human Factors - Impaired by Alcohol</td>
<td>2</td>
<td>C</td>
<td>D</td>
<td>Blank</td>
<td>Code = 2</td>
<td>Human Factor Flag = true. National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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</tr>
<tr>
<td>2</td>
<td></td>
<td>E</td>
<td>Human Factors - Impaired by Alcohol</td>
<td>2 E Human Factors - Unattended person</td>
<td>2</td>
<td>C</td>
<td>D</td>
<td>Blank</td>
<td>Code = 3</td>
<td>Human Factor Flag = true. National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
</tr>
</tbody>
</table>

**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
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5. Validity check will be performed on all date fields in the form of YYYYMMDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Field Type</th>
<th>Size</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>E3</td>
<td>D</td>
<td>Human Factor - Mentally disabled</td>
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<td>C</td>
<td>D</td>
<td>Blank</td>
<td>Code = 4</td>
<td>Human Factors flag</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td>E3</td>
<td>D</td>
<td>Human Factor - Physically disabled</td>
<td>2</td>
<td>C</td>
<td>D</td>
<td>Blank</td>
<td>Code = 5</td>
<td>Human Factors flag</td>
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<tr>
<td>2</td>
<td>E3</td>
<td>D</td>
<td>Human Factor - Multi-ple persons.</td>
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<td>C</td>
<td>D</td>
<td>Blank</td>
<td>Code = 6</td>
<td>Human Factors flag</td>
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<td></td>
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<tr>
<td>2</td>
<td>E3</td>
<td>D</td>
<td>Human Factor - Estimated Age related</td>
<td>2</td>
<td>C</td>
<td>D</td>
<td>Blank</td>
<td>Code = 7</td>
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<td>D</td>
<td>Estimated Age of Person Involved</td>
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<td>59</td>
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<td>Sex of Person Involved</td>
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<td>F1</td>
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<td>Equipment Involved</td>
<td>1</td>
<td>Y</td>
<td>D</td>
<td>Blank</td>
<td>Y or N</td>
<td>Equip Involved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>F1</td>
<td>D</td>
<td>Equipment Involved in Ignition flag</td>
<td>4</td>
<td>C</td>
<td>Blank</td>
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<td>60</td>
<td>Equip flag</td>
<td>National codes plus one digit (NNNL): display national field lengths unless local option character is defined.</td>
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<td>2</td>
<td>F1</td>
<td>D</td>
<td>Brand</td>
<td>25</td>
<td>X</td>
<td>Blank</td>
<td>Equip flag</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>F1</td>
<td>D</td>
<td>Model</td>
<td>25</td>
<td>X</td>
<td>Blank</td>
<td>Equip flag</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>F1</td>
<td>D</td>
<td>Serial #</td>
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<td>X</td>
<td>Blank</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>F1</td>
<td>D</td>
<td>Year</td>
<td>4</td>
<td>X</td>
<td>Null</td>
<td>Numeric</td>
<td>Equip flag</td>
<td></td>
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<td>F2</td>
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<td>Valid code</td>
<td>60</td>
<td>Equip flag</td>
<td>National codes plus one digit (NNNL): display national field lengths unless local option character is defined.</td>
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<tr>
<td>2</td>
<td>F3</td>
<td>D</td>
<td>Equipment Portability</td>
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<td>60</td>
<td>Equip flag</td>
<td>1 = portable; 2 = stationary National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>G</td>
<td>D</td>
<td>Suppression flag Factors</td>
<td>1</td>
<td>Y</td>
<td>D</td>
<td>Blank</td>
<td>Y or N</td>
<td>Fire Suppression/ Incident Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>G</td>
<td>D</td>
<td>Suppression None flag</td>
<td>4</td>
<td>C</td>
<td>Blank</td>
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<td>Fire Suppression flag</td>
<td>National codes plus one digit (NNNL): display national field lengths unless local option character is defined.</td>
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<tr>
<td>2</td>
<td>G</td>
<td>D</td>
<td>Factor #1</td>
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<td>C</td>
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<td>62</td>
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<td>D</td>
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<td>Blank</td>
<td>Valid code</td>
<td>62</td>
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<td>H</td>
<td>D</td>
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<td>C</td>
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<td>62</td>
<td>Fire Suppression flag</td>
<td>National codes plus one digit (NNNL): display national field lengths unless local option character is defined.</td>
<td></td>
</tr>
</tbody>
</table>

Key:
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<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
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<td>S</td>
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<td>D</td>
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<td>64</td>
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<td></td>
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<td>D</td>
<td>Mobile Property Involve &amp; Type</td>
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<td>Blank</td>
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<td></td>
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<td>D</td>
<td>Mobile Property Type</td>
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<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>65</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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<td></td>
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<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>65</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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</tr>
<tr>
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<td>D</td>
<td>Year</td>
<td>4</td>
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<td>Null</td>
<td>Numeric</td>
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<td>D</td>
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<td>1</td>
<td>D</td>
<td>License plate #</td>
<td>10</td>
<td>X</td>
<td>Blank</td>
<td>Max at state is 8 with 2 for growth.</td>
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<td></td>
<td></td>
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<td>Valid code</td>
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<td>1</td>
<td>D</td>
<td>VIN #</td>
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<td>X</td>
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</tr>
<tr>
<td>3</td>
<td></td>
<td>Structure Fire Module</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Required module if applicable, Incident Type Code must be a structure file</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>D</td>
<td>Structure Type</td>
<td>2</td>
<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>66, 67, 68 Incident Type</td>
<td>If enclosed building, complete the rest of the module. National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>D</td>
<td>Building Status</td>
<td>2</td>
<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>67, 68</td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>D</td>
<td>Building Height</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>D</td>
<td>Number of Stories at/ above grade</td>
<td>3</td>
<td>N</td>
<td>D</td>
<td>Null</td>
<td>67, 90, 92</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>D</td>
<td>Number of Stories below grade</td>
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<td>D</td>
<td>Null</td>
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<td>D</td>
<td>Size of Main Floor Area</td>
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<td>Sq. Feet</td>
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<td>Y</td>
<td>Null</td>
<td>67</td>
<td></td>
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</tr>
<tr>
<td>3</td>
<td>1</td>
<td>D</td>
<td>Length</td>
<td>4</td>
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<td>67</td>
<td>Sq. Feet Convert to square feet.</td>
<td></td>
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<tr>
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<td>1</td>
<td>D</td>
<td>Width</td>
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<td>67</td>
<td>Sq. Feet Convert to square feet.</td>
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<tr>
<td>3</td>
<td>1</td>
<td>D</td>
<td>Floor of Origin</td>
<td>3</td>
<td>N</td>
<td>Y</td>
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<tr>
<td>3</td>
<td>1</td>
<td>D</td>
<td>Story of Origin, Below grade flag</td>
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<td>Y</td>
<td>D</td>
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<td>67</td>
<td>Fire Origin</td>
<td></td>
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</table>

**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
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5. Validity check will be performed on all date fields in the form of YYYYMMDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 12 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>J2</td>
<td>D</td>
<td>Fire Spread</td>
<td>2</td>
<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>Valid code</td>
<td>67, 69, 70</td>
<td></td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<tr>
<td>3</td>
<td>J3</td>
<td>D</td>
<td>Number of Stories</td>
<td>3</td>
<td>N</td>
<td>Null</td>
<td>Numeric</td>
<td>67, 71</td>
<td>Minor Damage flag</td>
<td></td>
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<tr>
<td>3</td>
<td>J3</td>
<td>D</td>
<td>Significant Damage</td>
<td>3</td>
<td>N</td>
<td>Null</td>
<td>Numeric</td>
<td>67, 71</td>
<td>Significant Damage flag</td>
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<tr>
<td>3</td>
<td>J3</td>
<td>D</td>
<td>Heavy Damage</td>
<td>3</td>
<td>N</td>
<td>Null</td>
<td>Numeric</td>
<td>67, 71</td>
<td>Heavy Damage flag</td>
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<tr>
<td>3</td>
<td>J3</td>
<td>D</td>
<td>Extreme Damage</td>
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<td>N</td>
<td>Null</td>
<td>Numeric</td>
<td>67, 71</td>
<td>Extreme Damage flag</td>
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<td>3</td>
<td>K</td>
<td>D</td>
<td>Material Contributing to Flame Spread</td>
<td>1</td>
<td>Y</td>
<td>D</td>
<td>Blank</td>
<td>Y or N</td>
<td>X1 or X2</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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<tr>
<td>3</td>
<td>K1</td>
<td>D</td>
<td>Item Contributing Most to Spread</td>
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<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>67, 72</td>
<td>Flag: Item Con. &lt; 70; different materials national codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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</tr>
<tr>
<td>3</td>
<td>K2</td>
<td>D</td>
<td>Type of Material Contributing Most to Spread</td>
<td>3</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>67, 72, 73</td>
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<td></td>
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<tr>
<td>3</td>
<td>L1</td>
<td>D</td>
<td>Detector Performance</td>
<td>2</td>
<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>1, N, U</td>
<td>67, 74</td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<tr>
<td>3</td>
<td>L2</td>
<td>D</td>
<td>Type of Detection System</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
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<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<td>3</td>
<td>L3</td>
<td>D</td>
<td>Detector Power Supply</td>
<td>2</td>
<td>C</td>
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<td>74</td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<tr>
<td>3</td>
<td>L4</td>
<td>D</td>
<td>Detector Operation</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
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<td>75, 76</td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<tr>
<td>3</td>
<td>L5</td>
<td>D</td>
<td>Detector Effectiveness</td>
<td>2</td>
<td>C</td>
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<td>75</td>
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<tr>
<td>3</td>
<td>L5</td>
<td>D</td>
<td>Detector Failure Reason</td>
<td>2</td>
<td>C</td>
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<td>76</td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<tr>
<td>3</td>
<td>M</td>
<td>M</td>
<td>Automatic Extinguishment Systems</td>
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</table>

**Key**
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### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 13 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
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<th>Field Type</th>
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<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<tbody>
<tr>
<td>3</td>
<td>M1</td>
<td>D</td>
<td>Presence of AES</td>
<td>2</td>
<td>C</td>
<td>Y</td>
<td>Blank</td>
<td>Valid code 67, 79</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>M2</td>
<td>D</td>
<td>Type of AES</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code 79</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>M3</td>
<td>D</td>
<td>Operation of Automatic Extinguishing System</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code 79, 80, 81</td>
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<td></td>
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<tr>
<td>3</td>
<td>M4</td>
<td>D</td>
<td>Number of Sprinkler Heads Operating</td>
<td>3</td>
<td>N</td>
<td>Null</td>
<td>Numeric 79, 80</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>M5</td>
<td>D</td>
<td>Reason for AES Failure</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code 79, 81</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Civilian Fire Casualty Module

- **State**: 
  - Element Type: D
  - Size: 2
  - Field Type: C
  - REQ: K
  - Default: State ID
  - Acceptable Conditions: Valid code
  - Relational Edit: null
  - Cross Fields: null

- **FDID**: 
  - Element Type: D
  - Size: 5
  - Field Type: X
  - REQ: K
  - Default: Dept. ID

- **Incident Date**: 
  - Element Type: A
  - Size: 8
  - Field Type: D
  - REQ: K
  - Default: YYYYMMDD/Blank
  - Acceptable Conditions: YYYYMMDD 22 thru 24
  - Relational Edit: null
  - Cross Fields: null

- **Station**: 
  - Element Type: A
  - Size: 3
  - Field Type: X
  - Default: Station

- **Incident Number**: 
  - Element Type: A
  - Size: 7
  - Field Type: N
  - REQ: K
  - Default: Blank
  - Acceptable Conditions: Numeric
  - Relational Edit: null
  - Cross Fields: null

- **Exposure**: 
  - Element Type: A
  - Size: 3
  - Field Type: N
  - Default: N
  - Acceptable Conditions: Sequential

- **Delete/Change**: 
  - Element Type: A
  - Size: 1
  - Field Type: A
  - Default: Blank
  - Acceptable Conditions: 1, 2

#### Injured Person

- **Gender**: 
  - Element Type: B
  - Size: 1
  - Field Type: C
  - REQ: Y
  - Default: Blank

- **First Name**: 
  - Element Type: B
  - Size: 15
  - Field Type: X
  - Default: Blank

- **Middle Initial**: 
  - Element Type: B
  - Size: 1
  - Field Type: X
  - Default: Blank

- **Last Name**: 
  - Element Type: B
  - Size: 25
  - Field Type: X
  - Default: Blank

- **Name Suffix**: 
  - Element Type: B
  - Size: 3
  - Field Type: C
  - Default: Blank

- **Casualty Number**: 
  - Element Type: C
  - Size: 3
  - Field Type: N
  - Default: 1
  - Acceptable Conditions: Incremented, Sequential

- **DOB**: 
  - Element Type: D
  - Size: 6
  - Field Type: N
  - REQ: Y
  - Default: Null
  - Acceptable Conditions: Numeric 82
  - Relational Edit: DOB, Months
  - Cross Fields: Age will be NNN.NN

- **Age or Date of Birth**: 
  - Element Type: D
  - Size: 6
  - Field Type: N
  - REQ: Y
  - Default: Blank
  - Acceptable Conditions: Y or N
  - Relational Edit: Store months as year.

- **Date of Birth**: 
  - Element Type: D
  - Size: 8
  - Field Type: N
  - Default: Blank
  - Acceptable Conditions: Valid date
  - Relational Edit: Age
  - Cross Fields: Convert date to age & store

- **Race**: 
  - Element Type: E
  - Size: 2
  - Field Type: C
  - Default: Blank
  - Acceptable Conditions: Valid code

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TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 14 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<tbody>
<tr>
<td>4</td>
<td>E2</td>
<td>D</td>
<td>Ethnicity, Hispanic</td>
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<td>C</td>
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<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<td>D</td>
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<td>4</td>
<td>G</td>
<td>D</td>
<td>Date of Injury</td>
<td>8</td>
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<td>Blank</td>
<td>YYYYMMDD 83</td>
<td>Standard date edits.</td>
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<tr>
<td>4</td>
<td>G</td>
<td>D</td>
<td>Time of Injury</td>
<td>6</td>
<td>N</td>
<td>0</td>
<td>0000-235959</td>
<td>Standard time range, if seconds are not provided, then seconds are set to “00”.</td>
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<td>H</td>
<td>D</td>
<td>Severity</td>
<td>2</td>
<td>C</td>
<td>Y</td>
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<td>Cause of Injury</td>
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<td>J</td>
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<td>Human Factors</td>
<td></td>
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<td>If true all other factors must be false</td>
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<td>J</td>
<td>D</td>
<td>Human Factors None</td>
<td>1</td>
<td>C</td>
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<td>84</td>
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<td>J</td>
<td>D</td>
<td>Asleep</td>
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<td>C</td>
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<td>4</td>
<td>J</td>
<td>D</td>
<td>Unconscious</td>
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<td>C</td>
<td>Blank</td>
<td>Code = 2</td>
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<td>4</td>
<td>J</td>
<td>D</td>
<td>Possible Alcohol</td>
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<td>C</td>
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<td>Code = 3</td>
<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<td>4</td>
<td>J</td>
<td>D</td>
<td>Possible Drugs</td>
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<td>C</td>
<td>Blank</td>
<td>Code = 4</td>
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<td>4</td>
<td>J</td>
<td>D</td>
<td>Mentally Challenged</td>
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<td>C</td>
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<td>J</td>
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<td>Physically Challenged</td>
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<td>C</td>
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<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<td>D</td>
<td>Physically restrained</td>
<td>2</td>
<td>C</td>
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<td>J</td>
<td>D</td>
<td>Unattended person</td>
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<td>C</td>
<td>Blank</td>
<td>Code = 8</td>
<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<td>4</td>
<td>K</td>
<td></td>
<td>Factors Contributing to Injury</td>
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<tr>
<td>4</td>
<td>K</td>
<td>D</td>
<td>Contributing Factors None Box</td>
<td>1</td>
<td>Y</td>
<td>Blank</td>
<td>Y or N 85</td>
<td>Contributing Factor 1</td>
<td>If false than at least one contributing factor.</td>
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<td></td>
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<td>K</td>
<td>D</td>
<td>Contributing Factors 1</td>
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<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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<th>Notes</th>
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<td>4</td>
<td>K</td>
<td>D</td>
<td>Contributing Factors 2</td>
<td>3</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>85, 86</td>
<td></td>
<td></td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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<td>Y or N</td>
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<td></td>
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<td>M:</td>
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<td>Story where Injury Occurred 3</td>
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<td>91, 92</td>
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<td>M: &amp; Previous field</td>
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<td>YYYYMMDD</td>
<td>22 thru 24</td>
<td>This field is the Alarm Date (is the same field).</td>
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<td>K</td>
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<td>D</td>
<td>Delete/Change 1</td>
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Key:
1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. All coded fields in the database will carry one more additional space than defined above for user defined code expansion.
5. Validity check will be performed on all date fields in the form of YYYYMMDD.
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 16 of 33)

<table>
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<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
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<th>Field Type</th>
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<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<td>93 Increment by one for each casualty.</td>
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<td>Time of Injury</td>
<td>6</td>
<td>N</td>
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<td>0000-235959</td>
<td>95 Standard time range, if seconds are not provided, then seconds are set to “00”.</td>
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<td>F</td>
<td>D</td>
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<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<td>D</td>
<td>Object Involved in Injury - None</td>
<td>1</td>
<td>Y</td>
<td>No</td>
<td>Y or N</td>
<td>96</td>
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<td>Involved in Injury</td>
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<td>No</td>
<td>Y or N</td>
<td>J2</td>
<td></td>
<td></td>
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<td>D</td>
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<td>If K is true then an equip record is required.</td>
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<td>Equipment Involved in Injury</td>
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<td>Equipment Involved in Injury Sequence Number</td>
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<td>N</td>
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<td>Unique number(s) for each casualty, incremented for each piece of failed equipment.</td>
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<td>7</td>
<td>State</td>
<td>D</td>
<td></td>
<td>2</td>
<td>C</td>
<td>K</td>
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<tr>
<td>7</td>
<td>FDID</td>
<td>D</td>
<td></td>
<td>5</td>
<td>X</td>
<td>K</td>
<td>Dept. ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Incident Date</td>
<td>D</td>
<td></td>
<td>8</td>
<td>D</td>
<td>K</td>
<td>YYYYMMDD</td>
<td>YYYYMMDD</td>
<td>22 thru 24 This field is the Alarm Date (is the same field).</td>
</tr>
<tr>
<td>7</td>
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<td>D</td>
<td></td>
<td>3</td>
<td>X</td>
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</tr>
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<td>Incident Number</td>
<td>D</td>
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<td>N</td>
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<td>Record key must be unique.</td>
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<td>Exposure</td>
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<td>3</td>
<td>N</td>
<td>K</td>
<td>N, sequential</td>
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<td>D</td>
<td></td>
<td>2</td>
<td>N</td>
<td>K</td>
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<td>Increment by one.</td>
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<tr>
<td>7</td>
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<td>D</td>
<td></td>
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<td>Blank, 1, 2</td>
<td>Blank ~ add.</td>
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<tr>
<td>7</td>
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</table>

Key
1. Element Types: (D)ata, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. All coded fields in the database will carry one more additional space than defined above for user defined code expansion.
5. Validity check will be performed on all date fields in the form of YYYYMMDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 21 of 33)

<table>
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<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
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<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<td>D</td>
<td>Name of Chemical or Material (Code)</td>
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<td>Select from table</td>
<td>If table does not contain the chemical or paper form entry, direct enter the chemical name (maximum of 50 characters)</td>
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<td>D</td>
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<td>7</td>
<td>D</td>
<td>D</td>
<td>Estimated Amount Release</td>
<td>9</td>
<td>N</td>
<td>Y 0</td>
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<td>D</td>
<td>D</td>
<td>Released Units</td>
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<tr>
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<td>D</td>
<td>Physical State When Released</td>
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<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<td>D</td>
<td>Released Into</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<tr>
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<td>D</td>
<td>Released From</td>
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</tr>
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<td>7</td>
<td>F</td>
<td>D</td>
<td>Story of Release</td>
<td>3</td>
<td>N</td>
<td>If Release = inside</td>
<td></td>
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<td></td>
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<tr>
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<td>F</td>
<td>D</td>
<td>Population Density</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
<td></td>
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</tr>
<tr>
<td>7</td>
<td>G</td>
<td>D</td>
<td>Area Affected</td>
<td>4</td>
<td>N</td>
<td>Blank</td>
<td>N</td>
<td>If zero is marked then “Area Affected Units” is set to Sq. feet (1).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>D</td>
<td>Area Affected Unit</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code, Area Affected is not Blank</td>
<td>Area Affected or Evacuated</td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>D</td>
<td>Area Evacuated</td>
<td>4</td>
<td>N</td>
<td>Blank</td>
<td>N</td>
<td>102</td>
<td>If None is marked then Area Evacuated is set to zero (0) and Area Evacuated Units is set to Sq. Feet (1). Number of people evacuated and number of buildings evacuated should be set to zero as well.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>S</td>
<td>Area Evacuated - None</td>
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<td>Blank</td>
<td>Y or N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
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### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 22 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
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<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<tr>
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<td>Area Evacuated Unit</td>
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<td>C</td>
<td>Blank</td>
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<td>Area Affected or Evacuated</td>
<td>National codes plus one digit (NL): display national field lengths unless local option character is defined.</td>
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<tr>
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<td>102</td>
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<tr>
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<td>D</td>
<td>Estimated Number - None</td>
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<td>Y</td>
<td>Blank</td>
<td>Y or N</td>
<td>If true need #</td>
<td></td>
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<tr>
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<td>7</td>
<td>G5</td>
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<td>Blank</td>
<td>Y or N</td>
<td>If true need #</td>
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<tr>
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<td>HazMat Actions Taken # 1</td>
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<td>105</td>
<td>Actions Taken</td>
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<td>D</td>
<td>HazMat Actions Taken # 2</td>
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<td>Valid code</td>
<td>103, 105</td>
<td>Actions Taken</td>
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<td>H</td>
<td>D</td>
<td>HazMat. Actions Taken # 3</td>
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<td>Actions Taken</td>
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<td>D</td>
<td>If fire or explosion is involved with incident, Which Occurred First?</td>
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<tr>
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<td>C, Y</td>
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<td>C</td>
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<td>108, 110</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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</tbody>
</table>

**Key**
1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
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<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
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<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
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<td>7</td>
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<td>D</td>
<td>Equipment Involved</td>
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<td>D</td>
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<td>115</td>
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8 Wildland Module  
Wildland Involvement indicated on Module 1

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### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 25 of 33)

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</table>

**Key**

1. Element Types: (D)ata, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. All coded fields in the database will carry one more additional space than defined above for user defined code expansion.
5. Validity check will be performed on all date fields in the form of YYYYMMDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 27 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
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<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>8</td>
<td>K</td>
<td>D</td>
<td>NFDRS Fuel Model At Origin</td>
<td>3</td>
<td>C</td>
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<td>National Codes plus one digit (NN): display National field lengths unless local option character is defined.</td>
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<td>Person Responsible for Fire</td>
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<td>Blocks L2, L3 &amp; L4</td>
<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<td>Person Resp. for Fire</td>
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<td>Age</td>
<td>6</td>
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<td>Person Resp. for Fire</td>
<td>Person Resp. for Fire</td>
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<td>Horizontal Distance from Right of Way</td>
<td>2</td>
<td>N</td>
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<td>less than 100 ft.</td>
<td>140</td>
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<td>D</td>
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<td>D</td>
<td>Elevation in Feet</td>
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<td>Null</td>
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</tr>
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<td>N</td>
<td>D</td>
<td>Relative Slope Position</td>
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<td>D</td>
<td>Rate of spread (Chains per hour)</td>
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</table>

**Key**

1. **Element Types:** (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. **Field Types:** (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. **Required:** (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. **All coded fields in the database will carry one more additional space than defined above for user defined code expansion.**
5. **Validity check will be performed on all date fields as the form of YYYYMMDD**
6. **Validity check will be performed on all time fields (00:00:00 to 23:59:59)**
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<th>Module No.</th>
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<th>Field Type</th>
<th>REQ</th>
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<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<td>Blank ~ add</td>
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**10** Personnel Module

Optional Form: Apparatus Module not used.

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<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<td>State</td>
<td>2 C K State ID</td>
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<tr>
<td>10</td>
<td>A D</td>
<td>FDID</td>
<td>5 X K Dept. ID</td>
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</table>

**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
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### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 29 of 33)

<table>
<thead>
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<th>Module No.</th>
<th>Line</th>
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<td>000000-235959</td>
<td>144</td>
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<td>S</td>
<td>Arrival flag</td>
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<td>Y or N</td>
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<td>D</td>
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<td>4</td>
<td>N</td>
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<td>000000-235959</td>
<td>145</td>
<td>Valid time, if seconds are not collected then they must be zero (00).</td>
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<td>B</td>
<td>S</td>
<td>Clear flag</td>
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<td>Y or N</td>
<td></td>
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<td>B</td>
<td>D</td>
<td>Clear Date</td>
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<td>Blank</td>
<td>Valid date</td>
<td>146</td>
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<td>B</td>
<td>D</td>
<td>Clear Time</td>
<td>4</td>
<td>N</td>
<td>Blank</td>
<td>000000-235959</td>
<td>146</td>
<td>Valid time, if seconds are not collected then they must be zero (00).</td>
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<tr>
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<td>I</td>
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<td>B</td>
<td>D</td>
<td>Number of People</td>
<td>3</td>
<td>N</td>
<td>Y</td>
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<td>N, &lt; 999</td>
<td>Number of People will be rolled up to the basic form.</td>
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</tr>
<tr>
<td>10</td>
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<td>D</td>
<td>Use</td>
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<td>B</td>
<td>D</td>
<td>Action #1</td>
<td>3</td>
<td>C</td>
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<td>Code table</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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<td></td>
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<td>B</td>
<td>D</td>
<td>Action #2</td>
<td>3</td>
<td>C</td>
<td>Blank</td>
<td>Code table</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
<td></td>
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</tr>
<tr>
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<td>D</td>
<td>Action #3</td>
<td>3</td>
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<td>Code table</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
<td></td>
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<td>Action #4</td>
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<td></td>
</tr>
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<td>D</td>
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</tr>
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<td>First Name</td>
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<td></td>
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</table>

**Key**
1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. All coded fields in the database will carry one more additional space than defined above for user defined code expansion.
5. Validity check will be performed on all date fields in the form of YYYYMMDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 30 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<tr>
<td>8</td>
<td>B</td>
<td>D</td>
<td>Middle Initial</td>
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<td>D</td>
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<td></td>
<td></td>
</tr>
<tr>
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<td>I</td>
<td>Attend</td>
<td></td>
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<td>D</td>
<td>Personnel Actions Taken</td>
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<td>C</td>
<td>Blank</td>
<td>Code table</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
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<td>Action #3</td>
<td>3</td>
<td>C</td>
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<td>Code table</td>
<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
<td></td>
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<td>D</td>
<td>Action #4</td>
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<td>National codes plus one digit (NNL): display national field lengths unless local option character is defined.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

| 11         | A    | D            | State Module | 2    | C          | K    | State ID | Valid code | | | |
| 11         | A    | D            | FDID Module  | 5    | X          | K    | Dept. ID | | | | |
| 11         | A    | D            | Incident Date Module | 8    | D          | K    | YYYYMMDD/Blank | YYYYMMDD | 22 thru 24 | This field is the Alarm Date (is the same field). |
| 11         | A    | D            | Station Module | 3    | X          | | Station | | | |
| 11         | A    | D            | Incident Number Module | 7    | N          | K    | Numeric | | | |
| 11         | A    | D            | Exposure Module | 3    | N          | K    | 000 | N, sequential | | |
| 11         | A    | D            | Delete/Change Module | 1    | X          | Blank | Blank, 1, 2 | Blank = add | | |
| 11         | B    | D            | Agency Referred To Module | 30   | X          | | Agency Name | | |
| 11         | B    | D            | Agency Street Number Module | 8    | N          | | Blank | | |
| 11         | B    | D            | Agency Street Prefix Module | 2    | C          | | Blank | Valid code | Use Table | |
| 11         | B    | D            | Agency Street or Highway Name Module | 30   | X          | Y    | Blank | Alpha/numeric | | |
| 11         | B    | D            | Agency Street Type Module | 4    | C          | | Blank | Valid code | Use Table | |
| 11         | B    | D            | Agency Street Suffix Module | 2    | X          | | Blank | Valid Code | | |
| 11         | B    | D            | Agency Apt or Suite Module | 15   | X          | | Blank | Alpha/numeric | | |

**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
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6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 31 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>Size</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<tr>
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<td>Valid state abbrev.</td>
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<td>D</td>
<td>Their case #</td>
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<td></td>
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<tr>
<td>11</td>
<td>B</td>
<td>D</td>
<td>Their ORI</td>
<td>5</td>
<td>X</td>
<td>Blank</td>
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<td></td>
</tr>
<tr>
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<td>D</td>
<td>Their FID</td>
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<td>X</td>
<td>Blank</td>
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<tr>
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<td>D</td>
<td>Their FIDID</td>
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<td>D</td>
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<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<tr>
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<td>E</td>
<td>D</td>
<td>Suspected Motivation Factors</td>
<td>3</td>
<td>C</td>
<td>Blank</td>
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<td>Select up to 3 factor codes. National Codes plus one digit (NNL): display National field lengths unless local option character is defined.</td>
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<tr>
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<td>F</td>
<td>D</td>
<td>Apparent Group Involvement</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
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<td>149</td>
<td>Select up to 3 factor codes. National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<tr>
<td>11</td>
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<td>D</td>
<td>Entry Method</td>
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<td>C</td>
<td>Blank</td>
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<td>Extent of Fire Involvement on Arrival</td>
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<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<tr>
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<td>D</td>
<td>Incendiary Devices</td>
<td>3</td>
<td>C</td>
<td>Blank</td>
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<td>Select all that apply. National Codes plus one digit (NNL): display National field lengths unless local option character is defined.</td>
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<td>11</td>
<td>H</td>
<td>D</td>
<td>Container</td>
<td>3</td>
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<td>Select all that apply. National Codes plus one digit (NNL): display National field lengths unless local option character is defined.</td>
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<tr>
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<td>H</td>
<td>D</td>
<td>Ignition/Delay Device</td>
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<td>C</td>
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<td>Fuel</td>
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<td>D</td>
<td>Other Investigative Information</td>
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<td>K</td>
<td>D</td>
<td>Initial Observations</td>
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<td>Numeric; sequential</td>
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</table>

**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y)Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
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### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 32 of 33)

<table>
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<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
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<td>C</td>
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<td>1, 2, Blank</td>
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<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
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<td></td>
</tr>
<tr>
<td>11 M3</td>
<td>D</td>
<td>Race</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>Blank</td>
<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 M3</td>
<td>D</td>
<td>Ethnicity</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>Blank</td>
<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 M3</td>
<td>D</td>
<td>Family Type</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>Blank</td>
<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 M3</td>
<td>D</td>
<td>Motivation, Risk Factors</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>152, 153</td>
<td>Select all that apply, codes 1 through 3 are mutually exclusive. National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 M3</td>
<td>D</td>
<td>Disposition</td>
<td>2</td>
<td>C</td>
<td>Blank</td>
<td>Valid code</td>
<td>Blank</td>
<td>National Codes plus one digit (NL): display National field lengths unless local option character is defined.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**X**

Supplemental Module

Same as K1 on Module 32

**X**

Fire Department Identification Record

| D    | FDID   | 5 | X | K | Blank | Alphanumeric |
| D    | State Code | 2 | C | Y | Blank | Valid code |
| D    | FIPS County code | 3 | X | Y | Blank | Numeric |
| D    | Department Name | 30 | X | Y | Blank |
| D    | Number of Stations | 3 | N | D | 0 |
| D    | Address | 25 | X | Y | Blank |
| D    | City | 20 | X | Y | Blank |
| D    | State | 2 | C | Y | Blank | Valid code |
| D    | Zip | 9 | N | Y | Null | Numeric |
| D    | Number of Paid | 4 | N | Y | Null | Numeric |
| D    | Number of Volunteer, Paid per Call | 4 | N | Y | Null | Numeric |
| D    | Number of Volunteer, not paid | 4 | N | Y | Null | Numeric |
| D    | Telephone Number | 10 | N | Blank |

**Key**

1. Element Types: (D)ata, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. All coded fields in the database will carry one more additional space than defined above for user defined code expansion.
5. Validity check will be performed on all date fields in the form of YYYMMDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
### TABLE 3-1. NFIRS 5.0 Edit Requirements (Sheet 33 of 33)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>REQ</th>
<th>Default</th>
<th>Acceptable Conditions</th>
<th>Relational Edit</th>
<th>Cross Fields</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td></td>
<td>Fax Number</td>
<td>10</td>
<td>N</td>
<td>Blank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>E-Mail Address</td>
<td>45</td>
<td>X</td>
<td>Blank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Key**

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
3. Required: (Y) - required, (K) - required and part of record key, (D) required by default (all logical and numeric fields)
4. All coded fields in the database will carry one more additional space than defined above for user defined code expansion.
5. Validity check will be performed on all date fields in the form of YYYYMMDD
6. Validity check will be performed on all time fields (00:00:00 to 23:59:59)
## Relational Edits

### TABLE 3-2. NFIRS 5.0 Relational Edits (Sheet 1 of 9)

<table>
<thead>
<tr>
<th>Edit</th>
<th>Form</th>
<th>Block</th>
<th>Field</th>
<th>Relational Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Basic</td>
<td>A</td>
<td>Record Key</td>
<td>This must be unique. The key is the following elements: State, FDID, Alarm Date, Incident Number, Exposure Number.</td>
</tr>
<tr>
<td>2</td>
<td>Basic</td>
<td>A</td>
<td>Exposure Number</td>
<td>This number must be ascending, incrementally 1, beginning with 000 (NOTE: A main fire incident with an exposure of 000 MUST exist in the system before exposures (&gt; 000) are allowed). If Incident Type is not in the 100 series (fires), Exposure Number cannot be greater than zero.</td>
</tr>
<tr>
<td>3</td>
<td>Basic</td>
<td>A</td>
<td>Transaction Type</td>
<td>If Transaction Type = blank (add) then no duplicate record should be found. If Transaction Type = 1 (change), then existing record must be retrieved and displayed for modification.</td>
</tr>
<tr>
<td>4</td>
<td>Basic</td>
<td>A</td>
<td></td>
<td>If Transaction Type = 2 (delete) then duplicate should be found and only the data elements in the key should be provided. If Transaction Type = 3 (no monthly activity), then Alarm Date (YYYYMM), incident number (0), exposure number (0) are all that is required.</td>
</tr>
<tr>
<td>5</td>
<td>Basic</td>
<td>B</td>
<td>Location</td>
<td>If Alternate Wildland Location box is not selected, Location on Basic form is required.</td>
</tr>
<tr>
<td>6</td>
<td>Basic</td>
<td>B</td>
<td>Location</td>
<td>If intersection is checked, then Street/Highway Name and Cross Street Name must be complete.</td>
</tr>
<tr>
<td>7</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If Incident Type not = 100 series, then the Fire Form and the Structure Fire Form are not allowed.</td>
</tr>
<tr>
<td>8</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If Incident Type not = 100 series and Incident Type not = 561, 631, 632, then F Block (Actions Taken) fields 1, 2, or 3 cannot be an 11 or 13, 14, 15, 16, or 17.</td>
</tr>
<tr>
<td>9</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If Incident Type = 111-112, then Structure Fire form is required.</td>
</tr>
<tr>
<td>10</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If Incident Type = 100, 113-118 then completion of the fire form is optional, not required and Block H2, Detector Alerted Occupants, is required.</td>
</tr>
<tr>
<td>11</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If Incident Type = 120 series, then the Structure Fire form is required.</td>
</tr>
<tr>
<td>12</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If Incident Type = 150 series, then the Fire Form is optional, not required.</td>
</tr>
<tr>
<td>13</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If used, the EMS module is only allowed for Incident Types: 100-243, 311, 321-323, 351-381, 400-431, 451, 900.</td>
</tr>
<tr>
<td>14</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>Incident Type 54x valid Actions Taken all of 20’s &amp; &gt; 50’s or Actions Taken = 00.</td>
</tr>
<tr>
<td>15</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>Incident Type 71x valid Actions Taken &gt;= 50 and &lt; 90 or Actions Taken = 00.</td>
</tr>
<tr>
<td>16</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>Incident Type 72x valid Actions Taken &lt;=1X, &lt;=40’s.</td>
</tr>
<tr>
<td>17</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>Incident Type 73x valid Actions Taken &lt;=1x, &lt;=40’s, &lt; 90.</td>
</tr>
<tr>
<td>18</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>Incident Type 74x valid Actions Taken &lt;=1x, &lt;=40’s, &lt; 90.</td>
</tr>
<tr>
<td>19</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>Incident Type 80x valid Actions Taken All.</td>
</tr>
<tr>
<td>Edit</td>
<td>Form</td>
<td>Block</td>
<td>Field</td>
<td>Relational Edit</td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td>-------</td>
<td>------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>20</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>Incident Type 9xx valid Actions Taken $\geq 50 &amp; &lt; 90$ or Actions Taken = 00.</td>
</tr>
<tr>
<td>21</td>
<td>Basic</td>
<td>D</td>
<td>Aid Given or Received</td>
<td>If aid is given (codes 3 or 4), then only the information on the Basic module through block G1 (Resources) must be completed by the department giving aid. The remainder of the Basic module and any other modules associated with the incident may be optionally completed but is not required. The information not captured by the department giving aid is captured by the department that receives aid for that incident.</td>
</tr>
<tr>
<td>22</td>
<td>Basic</td>
<td>E1</td>
<td>Alarm Time</td>
<td>Alarm Date/Time cannot be later than Arrival Date/Time.</td>
</tr>
<tr>
<td>23</td>
<td>Basic</td>
<td>E1</td>
<td>Alarm Time</td>
<td>Alarm Date/Time cannot be later than Date/Time Controlled.</td>
</tr>
<tr>
<td>24</td>
<td>Basic</td>
<td>E1</td>
<td>Alarm Time</td>
<td>Alarm Date/Time cannot be later than Last Unit Cleared Date/Time.</td>
</tr>
<tr>
<td>25</td>
<td>Basic</td>
<td>E1</td>
<td>Arrival Time</td>
<td>Arrival Date/Time cannot be later than Date/Time Controlled.</td>
</tr>
<tr>
<td>26</td>
<td>Basic</td>
<td>E1</td>
<td>Arrival Time</td>
<td>Arrival Date/Time cannot be later than Last Unit Cleared Date/Time.</td>
</tr>
<tr>
<td>27</td>
<td>Basic</td>
<td>E1</td>
<td>Control Time</td>
<td>Control Date/Time cannot be later than Last Unit Cleared Date/Time.</td>
</tr>
<tr>
<td>28</td>
<td>Basic</td>
<td>E1</td>
<td>Last Unit Cleared</td>
<td>Last Unit Cleared Date/Time cannot be less than Alarm Date/Time.</td>
</tr>
<tr>
<td>29</td>
<td>Basic</td>
<td>E1</td>
<td>Last Unit Cleared</td>
<td>Last Unit Cleared Date/Time must be entered if the Wildland module is not completed.</td>
</tr>
<tr>
<td>30</td>
<td>Basic</td>
<td>F</td>
<td>Action Taken</td>
<td>Cannot be duplicate, except for blanks.</td>
</tr>
<tr>
<td>31</td>
<td>Basic</td>
<td>F</td>
<td>Action Taken</td>
<td>Action Taken 1 must be entered before Action Taken 2.</td>
</tr>
<tr>
<td>32</td>
<td>Basic</td>
<td>F</td>
<td>Action Taken</td>
<td>Action Taken 2 must be entered before Action Taken 3.</td>
</tr>
<tr>
<td>33</td>
<td>Basic</td>
<td>G2</td>
<td>Dollar Loss</td>
<td>If Pre-Incident Property value entered, then it must be $\geq$ Property Losses.</td>
</tr>
<tr>
<td>34</td>
<td>Basic</td>
<td>G3</td>
<td>Dollar Loss</td>
<td>If Pre-Incident Contents value entered, then it must be $\geq$ Contents Losses.</td>
</tr>
<tr>
<td>35</td>
<td>Basic</td>
<td>H1</td>
<td>Civilian Fire Casualty</td>
<td>If Incident Type $&gt; 100$ series, then Civilian Casualty Form is not available.</td>
</tr>
<tr>
<td>36</td>
<td>Basic</td>
<td>J</td>
<td>Property Use</td>
<td>If Property Use $= 400$ series and Incident Type $= 100$ series, except 113 thru 118, then Property Details, Block B1 on the Fire form (# living units) must be entered.</td>
</tr>
<tr>
<td>37</td>
<td>Basic</td>
<td>J</td>
<td>Property Use</td>
<td>If Property Use $= 500$ - 800 series and Incident Type $= 100$ series, except 113 thru 118, then On Site Materials, Block C on the Fire form must be entered (none is valid entry) else the field is optional.</td>
</tr>
<tr>
<td>38</td>
<td>Fire</td>
<td>Fire Module</td>
<td>If the Incident Type is 140-143 or 160,170-173, then either the Fire module or the Wildland module is required. One of the two must be completed. If the Incident Type is 561,631 or 632, the Fire Module is not allowed but the Wildland Module may be optionally completed in addition to the Basic Module for these incidents.</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Fire</td>
<td>Fire Module</td>
<td>This module must be present if the Incident Type is 100 series, except for Incident Types 100, 113-118 and Incident types 150-155. When the Incident type is 140-143, 160, 170-173, 561, 631-632 then the Wildland Module may be used instead of the Fire Module.</td>
<td></td>
</tr>
</tbody>
</table>
### TABLE 3-2. NFIRS 5.0 Relational Edits (Sheet 3 of 9)

<table>
<thead>
<tr>
<th>Edit</th>
<th>Form</th>
<th>Block</th>
<th>Field</th>
<th>Relational Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>Fire</td>
<td>B1</td>
<td>Property Details</td>
<td>If Residential flag not blank, then residential units must be zero (0) and the converse is also true.</td>
</tr>
<tr>
<td>41</td>
<td>Fire</td>
<td>B2</td>
<td>Property Details</td>
<td>If Bldg. flag &gt; blank, then Bldg. Involved must be zero (0) and the converse is also true.</td>
</tr>
<tr>
<td>42</td>
<td>Fire</td>
<td>B2</td>
<td>Property Details</td>
<td>If Exposure Number &gt; zeroes then this field cannot be greater than Zero (totals for the incident are carried in the zero exposure)</td>
</tr>
<tr>
<td>43</td>
<td>Fire</td>
<td>B3</td>
<td>Property Details</td>
<td>If acres Burned None/Less than one acre is &gt; blank, then Acres Burned must be Blank.</td>
</tr>
<tr>
<td>44</td>
<td>Fire</td>
<td>B3</td>
<td>Acres Burned</td>
<td>If Incident Type = 140, 170 series then required unless Open/Wildland form is used.</td>
</tr>
<tr>
<td>45</td>
<td>Fire</td>
<td>C</td>
<td>On-Site Material</td>
<td>If None is checked, then no On-Site Materials are allowed.</td>
</tr>
<tr>
<td>46</td>
<td>Fire</td>
<td>C</td>
<td>On-Site Material</td>
<td>Required only if Item First Ignited 0 or &lt; 70.</td>
</tr>
<tr>
<td>47</td>
<td>Fire</td>
<td>D2</td>
<td>Heat Source</td>
<td>This data element can not be in the 80 series unless Exposure Number &gt; zero (0).</td>
</tr>
<tr>
<td>48</td>
<td>Fire</td>
<td>D3</td>
<td>Item First Ignited</td>
<td>This data element series 10 should be used only for Structure Fires.</td>
</tr>
<tr>
<td>49</td>
<td>Fire</td>
<td>D3</td>
<td>Flame Spread</td>
<td>If Confined to Object of Origin is checked, then J2 and K Blocks on the Structure Report are not available.</td>
</tr>
<tr>
<td>50</td>
<td>Fire</td>
<td>D4</td>
<td>Type of Material 1st</td>
<td>Required only if Item First Ignited 0 or &lt; 70.</td>
</tr>
<tr>
<td>51</td>
<td>Fire</td>
<td>E1</td>
<td>Cause of Ignition</td>
<td>If Exposure Number &gt; zero (0) this element should be set to Other.</td>
</tr>
<tr>
<td>52</td>
<td>Fire</td>
<td>E1</td>
<td>Cause of Ignition</td>
<td>If None is checked then no data may be entered.</td>
</tr>
<tr>
<td>53</td>
<td>Fire</td>
<td>E1</td>
<td>Cause of Ignition</td>
<td>If Age Was Factor is checked, then age must be greater than zero (0), and gender must be present.</td>
</tr>
<tr>
<td>54</td>
<td>Fire</td>
<td>E2</td>
<td>Factors Contributing</td>
<td>Factor Contributing #1 cannot be = to Factor #2.</td>
</tr>
<tr>
<td>55</td>
<td>Fire</td>
<td>E2</td>
<td>Factors Contributing</td>
<td>Factor Contributing #1 will be set to 71, Factor #2 will be blank.</td>
</tr>
<tr>
<td>56</td>
<td>Fire</td>
<td>E3</td>
<td>Human Factors</td>
<td>If None is checked no data may be entered.</td>
</tr>
<tr>
<td>57</td>
<td>Fire</td>
<td>E3</td>
<td>Human Factors</td>
<td>If Age Was Factor is checked, then age must be greater than zero (0), and gender must be present.</td>
</tr>
<tr>
<td>58</td>
<td>Fire</td>
<td>E3</td>
<td>Human Factors</td>
<td>If Exposure Number &gt; zero (0) this element is not available.</td>
</tr>
<tr>
<td>59</td>
<td>Fire</td>
<td>E3</td>
<td>Human Factors</td>
<td>If Exposure Number &gt; zero (0) this element is not available.</td>
</tr>
<tr>
<td>60</td>
<td>Fire</td>
<td>F1</td>
<td>Equipment Involved</td>
<td>If F1 (Equipment Involved) is not = none then F2 Block (Equipment Power Source) and F3 Block (Equipment Portability) are required.</td>
</tr>
<tr>
<td>61</td>
<td>Fire</td>
<td>G1</td>
<td>Fire Suppression</td>
<td>If None is checked no data entry is allowed.</td>
</tr>
<tr>
<td>62</td>
<td>Fire</td>
<td>G1</td>
<td>Fire Suppression</td>
<td>Each of the Fire Suppression Factors must not duplicate other Fire Suppression factors entered.</td>
</tr>
<tr>
<td>63</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If Incident Type = 130 (vehicle fire) series, then H1 (Mobile Property Involved) on the fire form cannot be &quot;none&quot;.</td>
</tr>
</tbody>
</table>
### TABLE 3-2. NFIRS 5.0 Relational Edits (Sheet 4 of 9)

<table>
<thead>
<tr>
<th>Edit</th>
<th>Form</th>
<th>Block</th>
<th>Field</th>
<th>Relational Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>Fire</td>
<td>H1</td>
<td>Mobile Prop Involved</td>
<td>If None is checked no data entry is allowed.</td>
</tr>
<tr>
<td>65</td>
<td>Fire</td>
<td>H1</td>
<td>Mobile Prop Involved</td>
<td>If Code = 2 or 3 then H2 (Mobile Property Type and Make) entry is required.</td>
</tr>
<tr>
<td>66</td>
<td>Structure Fire</td>
<td>I1</td>
<td>Structure Type</td>
<td>If Structure Type not = 1 or 2, then the rest of the module is not required.</td>
</tr>
<tr>
<td>67</td>
<td>Structure Fire</td>
<td>I2</td>
<td>Structure Type</td>
<td>If Structure Type = 1 or 2 then I2, I3, I4, J1, J2, L1 and M1 Blocks are required, otherwise it is optional.</td>
</tr>
<tr>
<td>68</td>
<td>Structure Fire</td>
<td>I4</td>
<td>Structure Type</td>
<td>If Total Square Feet is present then Length/Width must be Blank, and the converse is also True.</td>
</tr>
<tr>
<td>69</td>
<td>Structure Fire</td>
<td>J2</td>
<td>Object of Origin</td>
<td>If J2 = 1, 2 or 3 then J3 Total cannot exceed 1.</td>
</tr>
<tr>
<td>70</td>
<td>Structure Fire</td>
<td>J3</td>
<td>Number of Stories Damaged</td>
<td>J3 Total cannot exceed the Total of I3 + 1.</td>
</tr>
<tr>
<td>71</td>
<td>Structure Fire</td>
<td>K</td>
<td>Material Contributing</td>
<td>If No Flame Spread or Same Material is checked then K1 and K2 are not available.</td>
</tr>
<tr>
<td>72</td>
<td>Structure Fire</td>
<td>K2</td>
<td>Type of Material Contributing to Flame Spread</td>
<td>Required only if Item Contributing Code is 00 or &lt; 70.</td>
</tr>
<tr>
<td>73</td>
<td>Structure Fire</td>
<td>L1</td>
<td>Presence of Detector</td>
<td>If Presence of Detectors is YES, then L2, L3 and L4 are required. If Presence of Detectors is left blank, then L2, L3 and L4 are not available.</td>
</tr>
<tr>
<td>74</td>
<td>Structure Fire</td>
<td>L4</td>
<td>Detector Operation</td>
<td>If Detector Operation = 2 Then L5 is required. If Detector Operation not = 2 Then L5 Detector Effectiveness entry is not allowed.</td>
</tr>
<tr>
<td>75</td>
<td>Structure Fire</td>
<td>L6</td>
<td>Detector Operation</td>
<td>If Detector Operation = 3 Then L6 is required. If Detector Operation = 2 Then L6 Detector Failure Reason is not allowed.</td>
</tr>
<tr>
<td>76</td>
<td>Structure Fire</td>
<td>L6</td>
<td>Detector Operation</td>
<td>If Detector Failure Reason = 1, then Detector Power Supply can not be equal to 1 or 6.</td>
</tr>
<tr>
<td>77</td>
<td>Structure Fire</td>
<td>L6</td>
<td>Detector Operation</td>
<td>If Detector Failure Reason = 5 or 6, then Detector Power Supply can not be equal to 2, 3, or 6.</td>
</tr>
<tr>
<td>78</td>
<td>Structure Fire</td>
<td>M1</td>
<td>Pres. of Automatic Extinguishment Systems</td>
<td>If not present then, M2, M3, M4 and M5 are not available.</td>
</tr>
<tr>
<td>79</td>
<td>Structure Fire</td>
<td>M4</td>
<td>Number of Heads</td>
<td>If M3 = 1 or 2, then this data element is available and must be greater than zero (0).</td>
</tr>
<tr>
<td>80</td>
<td>Structure Fire</td>
<td>M5</td>
<td>AES Failure</td>
<td>If M3 = 1, then M5 is not available.</td>
</tr>
<tr>
<td>81</td>
<td>Civilian</td>
<td>D</td>
<td>Age or DOB</td>
<td>If DOB is present, then Age is calculated. If Age is present, then DOB is not available.</td>
</tr>
<tr>
<td>82</td>
<td>Civilian</td>
<td>G</td>
<td>Date of Injury</td>
<td>Cannot be later than the Date/Time of Last Unit Cleared on the Basic Form.</td>
</tr>
<tr>
<td>83</td>
<td>Civilian</td>
<td>J</td>
<td>Human Factors Cont.</td>
<td>If None is checked, then other codes are not available.</td>
</tr>
<tr>
<td>84</td>
<td>Civilian</td>
<td>K</td>
<td>Factors Contributing</td>
<td>If NONE is checked, then other codes are not available. If &quot;NN&quot; or &quot;UU&quot; are entered as the first factor contributing, a second factor cannot be entered.</td>
</tr>
<tr>
<td>85</td>
<td>Civilian</td>
<td>K</td>
<td>Factors Contributing</td>
<td>These codes must be unique, except for blanks.</td>
</tr>
</tbody>
</table>
### TABLE 3-2. NFIRS 5.0 Relational Edits (Sheet 5 of 9)

<table>
<thead>
<tr>
<th>Edit</th>
<th>Form</th>
<th>Block</th>
<th>Field</th>
<th>Relational Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Civilian</td>
<td>M2</td>
<td>General Location</td>
<td>If General Location (M2) = 1 then Blocks M3, M4 and M5 are not required.</td>
</tr>
<tr>
<td>88</td>
<td>Civilian</td>
<td>M2</td>
<td>General Location</td>
<td>If General Location = 2 or 3, then Block M5 is required and entry of code 2 or 3 under block M1 is required.</td>
</tr>
<tr>
<td>89</td>
<td>Civilian</td>
<td>M3</td>
<td>Story at Start of Inc.</td>
<td>This is required only if M2 = 2.</td>
</tr>
<tr>
<td>90</td>
<td>Civilian</td>
<td>M3</td>
<td>Story at Start of Inc.</td>
<td>If the Structure Fire Module exists and the Building Height there is not equal to zero, then M3 cannot be greater than the Building Height on the Structure Fire Form.</td>
</tr>
<tr>
<td>91</td>
<td>Civilian</td>
<td>M4</td>
<td>Story at Start of Inc.</td>
<td>This is required only if M2 = 2.</td>
</tr>
<tr>
<td>92</td>
<td>Civilian</td>
<td>M4</td>
<td>Story Where Injury Occurred</td>
<td>If the Structure Fire Module exists and the Building Height there is not equal to zero, then M4 cannot be greater than the Building Height on the Structure Fire Form.</td>
</tr>
<tr>
<td>93</td>
<td>FireFighter</td>
<td>C</td>
<td>Casualty Number</td>
<td>This data element cannot exceed the Total number of Injuries and Deaths from H1 on Basic Form.</td>
</tr>
<tr>
<td>94</td>
<td>FireFighter</td>
<td>D</td>
<td>Age or DOB</td>
<td>If DOB is present, then Age is calculated. If Age is present, then DOB is not available.</td>
</tr>
<tr>
<td>95</td>
<td>FireFighter</td>
<td>E</td>
<td>Date &amp; Time of Injury</td>
<td>The Date &amp; Time cannot precede the Alarm Date/Time nor exceed the Date/Time of Last Unit Cleared.</td>
</tr>
<tr>
<td>96</td>
<td>FireFighter</td>
<td>I1</td>
<td>Cause of Injury</td>
<td>If Cause of Injury = 5 or 6, then I3 (Object involved) is required entry.</td>
</tr>
<tr>
<td>97</td>
<td>FireFighter</td>
<td>J2</td>
<td>Story Where Injury Occurred</td>
<td>If injured inside/On Structure then the Story of Injury must be entered.</td>
</tr>
<tr>
<td>98</td>
<td>FireFighter</td>
<td>J3</td>
<td>Specific Location</td>
<td>If Specific Location = 61, 63, 64 or 65, then J4 (Vehicle Type) is required.</td>
</tr>
<tr>
<td>99</td>
<td>FireFighter</td>
<td>J4</td>
<td>Vehicle Type</td>
<td>If Specific Location = 61, 63, 64 or 65, then J4 is required.</td>
</tr>
<tr>
<td>100</td>
<td>FireFighter</td>
<td>K1</td>
<td>Did Equipment Fail</td>
<td>If No, then K2, K3, K4 not required.</td>
</tr>
<tr>
<td>101</td>
<td>HazMat</td>
<td>D1</td>
<td>Est. Amount Release</td>
<td>If D2 = C3, then the Estimated Amount of Release cannot exceed the Estimated Container Capacity.</td>
</tr>
<tr>
<td>102</td>
<td>HazMat</td>
<td>G2</td>
<td>Area Evacuated</td>
<td>If Area Evacuated is None, then G3 and G4 must be zero (0).</td>
</tr>
<tr>
<td>103</td>
<td>HazMat</td>
<td>H</td>
<td>HazMat Action Taken</td>
<td>Action Taken 2 cannot be present without a Primary Action Taken.</td>
</tr>
<tr>
<td>104</td>
<td>HazMat</td>
<td>H</td>
<td>HazMat Action Taken</td>
<td>Action Taken 3 cannot be present without an Action Taken 2.</td>
</tr>
<tr>
<td>105</td>
<td>HazMat</td>
<td>H</td>
<td>HazMat Action Taken</td>
<td>Actions Taken 1, 2, 3 cannot be duplicates.</td>
</tr>
<tr>
<td>106</td>
<td>HazMat</td>
<td>I</td>
<td>Fire/Explosion?</td>
<td>If I Block = 1 or 2 (a fire or explosion was involved), then Incident type must be 100 or 200 series.</td>
</tr>
<tr>
<td>107</td>
<td>HazMat</td>
<td>J</td>
<td>Cause of Release</td>
<td>If Cause of release = 2, then K Block (Factors Contributing) is required.</td>
</tr>
<tr>
<td>108</td>
<td>HazMat</td>
<td>K</td>
<td>Factor Contributing</td>
<td>Factor Contributing #2 cannot present without a Factor Contributing #1. If &quot;NN&quot; or &quot;UU&quot; are entered as the first factor contributing, a second factor cannot be entered.</td>
</tr>
<tr>
<td>109</td>
<td>HazMat</td>
<td>K</td>
<td>Factor Contributing</td>
<td>Factor Contributing #3 cannot present without a Factor Contributing #2.</td>
</tr>
<tr>
<td>110</td>
<td>HazMat</td>
<td>K</td>
<td>Factor Contributing</td>
<td>Factor Contributing #’s 1, 2, 3 cannot be duplicates.</td>
</tr>
<tr>
<td>111</td>
<td>HazMat</td>
<td>L</td>
<td>Mitigating Factors</td>
<td>Mitigating Factors #2 cannot be present without a Mitigating Factor #1.</td>
</tr>
</tbody>
</table>
TABLE 3-2. NFIRS 5.0 Relational Edits (Sheet 6 of 9)

<table>
<thead>
<tr>
<th>Edit</th>
<th>Form</th>
<th>Block</th>
<th>Field</th>
<th>Relational Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>112</td>
<td>HazMat</td>
<td>L</td>
<td>Mitigating Factors</td>
<td>Mitigating Factors #3 cannot be present without a Mitigating Factor #2.</td>
</tr>
<tr>
<td>113</td>
<td>HazMat</td>
<td>L</td>
<td>Mitigating Factors</td>
<td>Mitigating Factors #’s 1, 2, 3 must be unique.</td>
</tr>
<tr>
<td>114</td>
<td>HazMat</td>
<td>M</td>
<td>Equipment Involved</td>
<td>If None is checked, then data entry is not available.</td>
</tr>
<tr>
<td>115</td>
<td>HazMat</td>
<td>N</td>
<td>Mobile Property</td>
<td>If None is checked, then data entry is not available.</td>
</tr>
<tr>
<td>116</td>
<td>HazMat</td>
<td>O</td>
<td>Disposition</td>
<td>Data Entry is required.</td>
</tr>
<tr>
<td>117</td>
<td>EMS</td>
<td>B</td>
<td>Record Key</td>
<td>This must be unique. The key is the following elements: State, FDID, Alarm Date, Incident Number, Exposure Number and Patient Number. Patient Number must begin with 001 and be unique. Patient Number cannot exceed the number of patients.</td>
</tr>
<tr>
<td>118</td>
<td>EMS</td>
<td>C</td>
<td>Time arrived at Patient</td>
<td>Arrived at Patient Date/Time must be equal or less than Patient Transfer Date/Time.</td>
</tr>
<tr>
<td>119</td>
<td>EMS</td>
<td>C</td>
<td>Time Arrived at Patient</td>
<td>Arrived at Patient Date/Time must be equal or greater than Alarm and Arrival Date/Time.</td>
</tr>
<tr>
<td>120</td>
<td></td>
<td></td>
<td>Time of Patient Transfer</td>
<td>Time of Patient Transfer must be equal or greater than Alarm Date/Time.</td>
</tr>
<tr>
<td>121</td>
<td>EMS</td>
<td>D</td>
<td>Provider Impression</td>
<td>If Impression Code = 16, then Block K is required</td>
</tr>
<tr>
<td>122</td>
<td>EMS</td>
<td>H1</td>
<td>Body Site &amp; Inj Type</td>
<td>Each Body Site must have an Injury type. Body Site may be repeated up to five times. Injury Type may be repeated, however the Body Site &amp; Injury Type combination may not be repeated.</td>
</tr>
<tr>
<td>123</td>
<td>EMS</td>
<td>I</td>
<td>Procedures Used</td>
<td>At least one procedure must be selected, but they are not mutually exclusive; except no treatment.</td>
</tr>
<tr>
<td>124</td>
<td>EMS</td>
<td>K</td>
<td>Pre-Arrival Arrest</td>
<td>If this is true, then Bystander CPR and Witnessed should be available. Pre-Arrival Arrest and Post-Arrival Arrest are mutually exclusive. Either Data Element requires an Initial Arrest Rhythm.</td>
</tr>
<tr>
<td>125</td>
<td>EMS</td>
<td>K</td>
<td>Post-Arrival Arrest</td>
<td>Pre-Arrival Arrest and Post-Arrival Arrest are mutually exclusive. This requires an Initial Arrest Rhythm.</td>
</tr>
<tr>
<td>126</td>
<td>EMS</td>
<td>K</td>
<td>Initial Arrest Rhythm</td>
<td>These data elements require either Pre-Arrival or Post-Arrival Arrest.</td>
</tr>
<tr>
<td>427</td>
<td>EMS</td>
<td>L1</td>
<td>Initial Level of Provider</td>
<td>This edit has been removed.</td>
</tr>
<tr>
<td>428</td>
<td>EMS</td>
<td>L2</td>
<td>Highest Level of Provider at Scene</td>
<td>This edit has been removed.</td>
</tr>
<tr>
<td>129</td>
<td>EMS</td>
<td>M</td>
<td>Patient Status</td>
<td>This edit has been removed</td>
</tr>
<tr>
<td>130</td>
<td>EMS</td>
<td>M</td>
<td>Pulse on Transfer</td>
<td>This edit has been removed</td>
</tr>
<tr>
<td>131</td>
<td>EMS</td>
<td>N</td>
<td>Disposition</td>
<td>This edit has been removed</td>
</tr>
<tr>
<td>132</td>
<td>Wildland</td>
<td>B</td>
<td>Alt Location Spec</td>
<td>This data element is required if the Alternate Location Box on the Basic Form is checked.</td>
</tr>
<tr>
<td>133</td>
<td>Wildland</td>
<td>B</td>
<td>Alt Location Spec</td>
<td>If Section B on the Basic Form is not complete, then this Relational Edit is True. If Latitude/Longitude is completed, then the Township, Range, Section, Subsection and Meridian may be blank; if Latitude/Longitude is blank, then the Township, Range, Section, Subsection and Meridian must be completed.</td>
</tr>
<tr>
<td>134</td>
<td>Wildland</td>
<td>L3</td>
<td>Total Acres Burned</td>
<td>This value must be greater than 0.0.</td>
</tr>
</tbody>
</table>
### TABLE 3-2. NFIRS 5.0 Relational Edits (Sheet 7 of 9)

<table>
<thead>
<tr>
<th>Edit</th>
<th>Form</th>
<th>Block</th>
<th>Field</th>
<th>Relational Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>135</td>
<td>Wildland</td>
<td>I4</td>
<td>Primary Crops Burned</td>
<td>Primary crop #1 must completed before crop #2 and crop #2 before crop #3.</td>
</tr>
<tr>
<td>136</td>
<td>Wildland</td>
<td>J</td>
<td>Property Management</td>
<td>If entered, Percentages of acres burned must total 100%.</td>
</tr>
<tr>
<td>137</td>
<td>Wildland</td>
<td>J</td>
<td>Property Management</td>
<td>If Federal Ownership the Federal Agency code must be entered</td>
</tr>
<tr>
<td>138</td>
<td>Wildland</td>
<td>L1</td>
<td>Person Responsible</td>
<td>If L1 = 1, then L2, L3, L4 must be entered.</td>
</tr>
<tr>
<td>139</td>
<td>Wildland</td>
<td>L2</td>
<td>Gender</td>
<td>This is valid only when L1- Person Responsible = 1.</td>
</tr>
<tr>
<td>140</td>
<td>Wildland</td>
<td>M</td>
<td>Right of Way</td>
<td>If distance from right of way is used, then type of right of way must be coded.</td>
</tr>
<tr>
<td>141</td>
<td>Apparatus</td>
<td></td>
<td>Dispatch Time</td>
<td>Dispatch Date/Time cannot be earlier than the Alarm Date/Time and cannot be later than the Arrival Date/Time, the Clear Date/Time or the Last Unit Cleared Date/Time.</td>
</tr>
<tr>
<td>142</td>
<td>Apparatus</td>
<td></td>
<td>Arrival Time</td>
<td>Arrival Date/Time cannot be earlier than the Alarm Date/Time, the Arrival Date/Time or later than the Clear Date/Time or Last Unit Clear Date/Time. Since there are separate arrival times captured for each piece of apparatus on the Apparatus/Personnel module, the Arrival Time of any unit/apparatus cannot be earlier than the Arrival Time entered on the Basic Module.</td>
</tr>
<tr>
<td>143</td>
<td>Apparatus</td>
<td></td>
<td>Clear Time</td>
<td>Clear Date/Time cannot be earlier than the Alarm Date/Time, the Dispatch Date/Time.</td>
</tr>
<tr>
<td>144</td>
<td>Personnel</td>
<td></td>
<td>Dispatch Time</td>
<td>Dispatch Date/Time cannot be earlier than the Alarm Date/Time and cannot be later than the Arrival Date/Time, the Clear Date/Time or the Last Unit Cleared Date/Time.</td>
</tr>
<tr>
<td>145</td>
<td>Personnel</td>
<td></td>
<td>Arrival Time</td>
<td>Arrival Date/Time cannot be earlier than the Alarm Date/Time, the Arrival Date/Time or later than the Clear Date/Time or Last Unit Clear Date/Time.</td>
</tr>
<tr>
<td>146</td>
<td>Personnel</td>
<td></td>
<td>Clear Time</td>
<td>Clear Date/Time cannot be earlier than the Alarm Date/Time, the Dispatch Date/Time, the Arrival Date/Time or later than the Last Unit Cleared Date/Time.</td>
</tr>
<tr>
<td>147</td>
<td>Arson</td>
<td></td>
<td></td>
<td>This module is active only if the Cause of Ignition field in the Fire Module is equal to 1, 2, 5, or U or the Wildland Fire Cause = 7 (If the Wildland Module is used instead of the Fire Module). If the Fire Module's Cause of Ignition = 2 then only Block A and Block M fields are allowed and active.</td>
</tr>
<tr>
<td>148</td>
<td>Arson</td>
<td>E</td>
<td>Suspected Motivation Factors</td>
<td>If either code 0 or U is selected, no other codes may be selected.</td>
</tr>
<tr>
<td>149</td>
<td>Arson</td>
<td>F</td>
<td>Apparent Group Involvement</td>
<td>If either code 0 or U is selected, no other codes may be selected.</td>
</tr>
<tr>
<td>150</td>
<td>Arson</td>
<td>K</td>
<td>Initial Observations</td>
<td>If code 3 or 4 is chosen, only one of the two codes may be selected. They are mutually exclusive.</td>
</tr>
<tr>
<td>151</td>
<td>Arson</td>
<td>M2</td>
<td>Age</td>
<td>If subject Age is greater than 17, then Arson Module blocks M1 through M5 (except for M2) are not allowed.</td>
</tr>
<tr>
<td>152</td>
<td>Arson</td>
<td>M7</td>
<td>Motivation/Risk Factors</td>
<td>If either code 0 or U is selected, no other codes may be selected.</td>
</tr>
<tr>
<td>153</td>
<td>Arson</td>
<td>M7</td>
<td>Motivation/Risk Factors</td>
<td>If codes 1, 2, or 3 is chosen, only one of the three codes may be selected. They are mutually exclusive. Any of the other codes may be chosen if they apply.</td>
</tr>
</tbody>
</table>
A critical error is generated for ALL incident types if the number of Fire Service Casualty Forms filled out does not equal the number of Fire Service Injuries and Deaths reported on the Basic Module unless the EMS module is also present. If the EMS module is completed as well, and the count of EMS and Fire Service Casualties on the Basic Module exceeds the sum of EMS and Fire Service Casualty records, then only a warning is generated (since both modules may record the same casualty).

If the number of Civilian Fire Casualty Forms filled out does not equal the number of Civilian Injuries and Deaths reported on the Basic Module AND the incident is a fire incident AND no HazMat or EMS is involved THEN a warning error is generated.

If the number of Civilian Fire Casualty Forms filled out does not equal the number of Civilian Injuries and Deaths reported on the Basic Module plus the casualty totals reported on the HazMat form AND the incident is a fire incident AND the HazMat module is present AND the EMS module is not present THEN a warning error is generated.

If the number of Civilian Fire Casualty Forms filled out plus the number of EMS forms filled out does not equal the number of Civilian Injuries and Deaths reported on the Basic Module and the incident is a fire incident and the EMS module is present] (THEN) A warning is generated.

If Apparatus or Personnel Module used, populate the Block G1 Resources fields on the Basic Module with the totals from the Apparatus or Personnel Module fields

If Incident Type = 1xx (fire) then generate a validation warning if either the Property or the Contents Dollar Loss loss value is greater than $500,000

If the "Directions" location type is checked then the Street Name field is not required and the "Cross Street or Directions" field is required.

For all NFIRS 5.0 date and time fields, if the date field is completed, the associated hours and minutes fields must also be entered and cannot be left blank.
### TABLE 3-2. NFIRS 5.0 Relational Edits (Sheet 9 of 9)

<table>
<thead>
<tr>
<th>Edit</th>
<th>Form</th>
<th>Block</th>
<th>Field</th>
<th>Relational Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>163</td>
<td>Fire</td>
<td>H1</td>
<td>Mobile Property Involved</td>
<td>If Fire Module Block H1 &quot;Mobile Property Involved&quot; is not equal to 1, None or Blank AND Block F1 Equipment Involved in Ignition is not equal to Blank or None, a error is generated because there cannot be BOTH Mobile Property Involved and Equipment Involved in the ignition of the fire.</td>
</tr>
<tr>
<td>164</td>
<td>Basic, Apparatus, Personnel</td>
<td>F</td>
<td>Actions Taken</td>
<td>&quot;00 Other Action Taken&quot; is always a valid entry. This supercedes any limits on the entry of Actions Taken defined in relational edits 14-20.</td>
</tr>
<tr>
<td>165</td>
<td>Basic</td>
<td>C</td>
<td>Incident Type</td>
<td>If Incident Type is &quot;611 Cancelled en-route&quot; then the Property Use and Casualty fields are not required on the Basic Module.</td>
</tr>
<tr>
<td>166</td>
<td>System</td>
<td></td>
<td>State Code</td>
<td>A State code of 'OO Other' is never allowed as a valid state code entry for the Fire Department Header Transactions (transaction types 2000, 2010, 2020).</td>
</tr>
<tr>
<td>167</td>
<td>Fire</td>
<td>E2</td>
<td>Factors Contributing to Ignition</td>
<td>Do not allow the entry of code 71 (Exposure) in the Factors Contributing to Ignition field on the Fire Module if the basic incident's main Exposure Number field is 0.</td>
</tr>
<tr>
<td>168</td>
<td>Basic</td>
<td>F</td>
<td>Actions Taken</td>
<td>Generate a user warning message if one of the Basic incident Action Taken codes is 93 (Cancelled en-route) and the Incident Type is not 611 (Cancelled en-route).</td>
</tr>
<tr>
<td>169</td>
<td>System</td>
<td></td>
<td>Age</td>
<td>If any Age field value in any module &gt; 125, a non-critical warning message is generated.</td>
</tr>
<tr>
<td>170</td>
<td>Basic</td>
<td>B</td>
<td>Location Type</td>
<td>If the &quot;US National Grid&quot; location type is checked then the Street Name field is not required and the &quot;Cross Street or Directions&quot; field is required.</td>
</tr>
</tbody>
</table>
## Incident Module Rules

### TABLE 3-3. NFIRS 5.0 Incident Module Rules

<table>
<thead>
<tr>
<th>Reference #</th>
<th>Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The Basic Module is always required for Incident Types: 100-911</td>
</tr>
<tr>
<td>2</td>
<td>If Incident Type = 571 (stand by) and if Aid Given or Received = codes 3, 4 or 5, then only the information on the Basic module through Block D (Aid Given or Received) need be completed by the department giving aid. The rest of the Basic Module and the other modules as applicable are optional.</td>
</tr>
<tr>
<td>3</td>
<td>If Incident Type = any other Incident Type than 571 and if Aid Given or Received = codes 3 or 4, and the &quot;THEIR FDID&quot; information in Block D is entered, then only the information on the Basic module through block G1 (Resources) and the Fire Fighter Casualty Module (when there is a casualty which, including additionally Block H1 on Basic) must be completed by the department giving aid. The remainder of the Basic module and any other modules associated with the incident may be optionally completed but are not required. The information not captured by the department giving aid will be captured by the department that receives aid for that incident.</td>
</tr>
<tr>
<td>4</td>
<td>Aid Giving Departments and Aid Receiving Departments always track their own Fire Service casualties separately. If a Fire Service Casualty occurs in a department giving aid, they should also complete the H1 Casualties block on the Basic Module in addition to the FS Casualty Module.</td>
</tr>
<tr>
<td>5</td>
<td>The department receiving aid is responsible for tracking and entering all of the civilian casualty information for the incident.</td>
</tr>
<tr>
<td>6</td>
<td>If aid is given (codes 3, 4), then only the information on the Basic module through block G1 (Resources) must be completed by the department giving aid unless a fire service casualty also occurs, then the giving department must also complete the Fire Service Casualty Module. The remainder of the Basic module and any other modules associated with the incident may be optionally completed but are not required. The information not captured by the department giving aid will be captured by the department that receives aid for that incident.</td>
</tr>
<tr>
<td>7</td>
<td>The Fire Module is always required for the following Incident Types with no exceptions: 110-112, 120-138, 161-164 (160 is not included here because that code can be a wildland fire)</td>
</tr>
<tr>
<td>8</td>
<td>The Fire Module for is never (ever) allowed for: 200-911</td>
</tr>
<tr>
<td>9</td>
<td>The Fire Module is optional for the following Incident Types: 113-118, 150-155</td>
</tr>
<tr>
<td>10</td>
<td>If the Wildland Module is not used in place of the Fire Module, then the Fire Module must be completed for Incident Types: 140-143, 160, 170-173</td>
</tr>
<tr>
<td>11</td>
<td>The Structure Fire Module is always required for Incident Types: 111-112 (Only the Structure Type element is required on the Structure Module for code 112, the rest of the module is optional) 120-123</td>
</tr>
<tr>
<td>12</td>
<td>The Structure fire Module is never allowed for Incident Types: 130-173</td>
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<tr>
<td>13</td>
<td>The Structure fire Module is optional for Incident Types: 113-118</td>
</tr>
<tr>
<td>14</td>
<td>If the Fire Module is not used in place of the Wildland Module, then the Wildland Fire Module must be completed for Incident Types: 140-143, 160, 170-173</td>
</tr>
<tr>
<td>15</td>
<td>The Wildland Module is optional for Incident Types: 561, 631, 632</td>
</tr>
<tr>
<td>16</td>
<td>The Wildland Module is never allowed for Incident Types: 100-138, 150-155, 161-164, 200-555, 571-621, 641-911</td>
</tr>
<tr>
<td>17</td>
<td>If used, the Arson Module is only allowed for Incident Types: 100-173 (Fire Cause field code on the Fire Module must also be '1 Intentional' or '2 Unintentional' or '5 Cause under investigation' or 'U Undetermined after investigation'. If the Wildland Module is used instead, the Wildland Fire Cause must be '7 Intentional'.)</td>
</tr>
<tr>
<td>18</td>
<td>If used, the EMS module is only allowed for Incident Types: 100-243, 311, 321-323, 351-381, 400-431, 451, 900</td>
</tr>
<tr>
<td>19</td>
<td>If used, the HazMat module is only allowed for Incident Types: 100-243, 321-323, 371, 400-431, 451, 900</td>
</tr>
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</table>
**System Field Security Levels**

The following table lists the default security level for each field in the NFIRS 5.0 system. The security level is the highest level at which the data in the field may be released from the national system. Please note that these are the default settings and may be configured differently at the option of individual states or fire departments. The purpose of these settings is to prevent data from being released publicly at the federal level when to do so would conflict with state or local jurisdiction privacy laws.

Sensitive data (marked as anything other than “Federal” in the table below) transmitted by vendor software and collected by the USFA NFIRS 5.0 software will be handled in the following manner once it is in the that system:

Data fields that are marked “Fire Department” in the table are collected and stored in the state database but may not be released publicly without permission of the originating fire department.

Data fields that are marked “State” in the table are collected and stored in the Federal Database but may not be released publicly without permission of the originating state.

These data security rules are in effect once the data passes into the USFA software system via transaction file.

### TABLE 3-4. System Field Security Levels (Sheet 1 of 19)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
<th>Security Level</th>
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<tr>
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1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 2 of 19)

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1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 3 of 19)

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<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
<th>Size</th>
<th>Field Type</th>
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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
TABLE 3-4. System Field Security Levels (Sheet 4 of 19)

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2. Field Types: (A)llphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) es/No Flag
TABLE 3-4. System Field Security Levels (Sheet 5 of 19)

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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
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3 Structure Fire Module

| 3 | I1 | D | Structure Type | 2 | C | National |

1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 7 of 19)

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1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 8 of 19)

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1. Element Types: (D)data, (S)ystem, (I)structional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 9 of 19)

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#### 5 Fire Service Casualty Module

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1. Element Types: (D)ata, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 10 of 19)

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### EMS Module

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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 11 of 19)

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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 12 of 19)

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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 14 of 19)

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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 15 of 19)

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2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 16 of 19)

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**9** Apparatus Module

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**10** Personnel Module

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1. Element Types: (D)ata, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 17 of 19)

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1. Element Types: (D)ata, (S)ystem, (I)nstructional, (L)eak-up
2. Field Types: (A)perture, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 18 of 19)

<table>
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<tr>
<th>Module No.</th>
<th>Line</th>
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<th>Size</th>
<th>Field Type</th>
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<td>D</td>
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1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
### TABLE 3-4. System Field Security Levels (Sheet 19 of 19)

<table>
<thead>
<tr>
<th>Module No.</th>
<th>Line</th>
<th>Element Type</th>
<th>Element</th>
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X  **Supplemental Paper Form**  National

Same as K1 on Module #2  National

X  **Fire Department ID Record**

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<tr>
<th>Element</th>
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</tr>
<tr>
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<tr>
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</tr>
<tr>
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<td>2</td>
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<tr>
<td>D</td>
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<tr>
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</tr>
<tr>
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<td>Number of Volunteer, not paid</td>
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</tr>
<tr>
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</tr>
<tr>
<td>D</td>
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1. Element Types: (D)data, (S)ystem, (I)nstructional, (L)ook-up
2. Field Types: (A)lphabetic, (C)oded Field, (X)Text, (N)umeric, (F)loating Point Numeric, (Y) Yes/No Flag
Incident Flat File Transfer Format

Overview

This section explains some of the conventions used in documenting the NFIRS 5.0 Incident Transaction File Format.

Transaction Record Hierarchy

The incident transaction records have been designed under the assumption that if a particular piece of information has not been collected as part of an incident, an empty record should not be transmitted. To accomplish this, a transaction hierarchy has been created so a parent transaction can be sent with only those applicable child transactions.

Example:
If aid was not given or received during an incident, the Aid Given or Received Transaction (1020) doesn’t need to be transmitted.

However, it must be mentioned, that if a transaction record is empty at the time of transmittal, but child transactions to that record are not, an empty parent transaction is required.

Example:
If the Mobile Property section of the Fire Form has been filled out, but the remainder of the Fire Form has not been entered, an empty Fire Form Transaction (1100) would need to be sent along with the Fire Mobile Property Transaction (1120). Note: The Fire Equipment Involved Transaction (1130) and File Attached Transaction (1110) would not need to be included, since they are child transactions and are empty.

All child transactions need to be included in the transaction file, after their corresponding parent transaction (although how many records after the parent transaction is irrelevant, as long as it is prior to the next incident).

Table 3-5, “Transaction Hierarchy Table,” on page 129 depicts the Incident Transaction Hierarchy and the associated Parent/Child relationships.
TABLE 3-5. Transaction Hierarchy Table

<table>
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<tr>
<td>(1005)</td>
<td>Basic Incident Transaction</td>
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<td>(1010)</td>
<td>Incident Address Transaction</td>
</tr>
<tr>
<td>(1020)</td>
<td>Aid Given and Received Transaction</td>
</tr>
<tr>
<td>(1030)</td>
<td>Officer in Charge Authority Transaction</td>
</tr>
<tr>
<td>(1035)</td>
<td>Member Making Report Authority Transaction</td>
</tr>
<tr>
<td>(1040)</td>
<td>Incident Remarks Transaction</td>
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<tr>
<td>(1050)</td>
<td>Incident Persons Involved Transactions</td>
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<td>Incident Owner Transaction</td>
</tr>
<tr>
<td>(1060)</td>
<td>Incident Special Studies Transactions</td>
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<tr>
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<td>Fire Form Transaction</td>
</tr>
<tr>
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<td>File Attached Transaction</td>
</tr>
<tr>
<td>(1120)</td>
<td>Fire Mobile Property Involved Transaction</td>
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<td>Fire Equipment Involved Transaction</td>
</tr>
<tr>
<td>(1200)</td>
<td>Structure Fire Form Transaction</td>
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<td>Wildland Form Transaction</td>
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<td>(1400)</td>
<td>Civilian Fire Casualty Transactions</td>
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<td>Fire Service Casualty Transactions</td>
</tr>
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<td>Fire Service Equipment Failure Transactions</td>
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<td>EMS Patient Transaction</td>
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<td>HazMat Transaction</td>
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<tr>
<td>(1710)</td>
<td>HazMat Chemical Transactions</td>
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<td>(1730)</td>
<td>HazMat Equipment Involved Transaction</td>
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<td>Incident Apparatus Transactions</td>
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<tr>
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</tr>
<tr>
<td>(1910)</td>
<td>Arson Agency Referral Transaction</td>
</tr>
<tr>
<td>(1920)</td>
<td>Arson Juvenile Subject Transactions</td>
</tr>
</tbody>
</table>

**Delimiters**

Fields within the transaction record can be delimited using a character or series of characters defined by the creator of the transaction file. The first record in the file MUST be the delimiter. NOTE: The delimiter MUST be different from the sub-delimiter used to denote multiple choice answers, which is a semi-colon (;) (explained in detail below).

**Transaction Record Termination**

All records in the file must be terminated with a delimiter, followed by a carriage return, followed immediately by a line feed.
Vendor Identification and Software Identification

Each vendor and/or custom system will be assigned an alphanumeric Vendor Identification Number after they have been certified as NFIRS 5.0 compliant. Vendor Identification Numbers may be up to 10 characters in length.

In addition, each version of the software a vendor/state certifies will be assigned a unique alphanumeric Software Identification Number. The Software Identification Number may be up to 5 characters in length.

The second record in the file MUST contain both the vendor and software identification numbers.

Example:

```
Delimiter ^
Vendor XYZVendor Identification Number 12S22R69K
Software Version 1.1Software Identification Number 1234C
Vendor and Software Identification Record 12S22R69K^1234C^
```

Addition, Deletion, Change and No Activity Transaction Flags

Each paper based form for the NFIRS support a Delete/Change flag in section A. This convention has been mimicked in the transaction file format.

Each Transaction Record has a Transaction Type field, which can have the following values.

<table>
<thead>
<tr>
<th>Value</th>
<th>Transaction Type</th>
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</thead>
<tbody>
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<td>Addition</td>
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<td>1</td>
<td>Change</td>
</tr>
<tr>
<td>2</td>
<td>Delete</td>
</tr>
<tr>
<td>3</td>
<td>No Activity</td>
</tr>
</tbody>
</table>

Add Incident

When a new incident is transmitted, the first record should be the Basic Incident Transaction. If this is not the first record of the new incident, a fatal error will be generated. All subsequent transactions are included with the incident until the key values change or the end of the file is reached.

Change and Delete Transaction

When an incident needs to be modified, a Change transaction should be transmitted. This includes changing records that already exists as well as transmitting new records for an existing incident (e.g. adding another casualty record to an existing incident). This change transaction must contain all the field values that should replace all the existing values for that transaction. (i.e. – If one field in a transaction changes, the entire transaction must be transmitted).

When a particular transaction has been removed from an incident, a Delete transaction should be transmitted. When a parent transaction is deleted, all child transactions for that parent are also deleted. If the Basic Incident Transaction is deleted, the entire incident is deleted. (Including any exposure record for fire incidents)

All transactions for an incident must appear at the same point in the transaction file. To ensure proper execution of change and delete transactions for an incident, they must be grouped into the following order.

- Deletion of existing records for the incident (in descending sequence)
- Addition of new records for the incident (in ascending sequence)
- Changes to existing records for the incident

Delete transactions MUST be grouped in descending sequence to ensure proper processing. For example, if three (3) casualty records exist for an incident and the last two (2) are to be deleted, the transactions should be transmitted as follows:
• Delete Casualty Number 3
• Delete Casualty Number 2

Addition transactions must be aware of any/all delete transactions that have been previously processed for the incident, and must use the appropriate sequence numbers. If in the above example, a new casualty were to be added after the delete transactions had been processed, the first casualty added must use Casualty number 2.

No Activity
No Activity transactions should only send the 1000 Incident Header Transaction. A code of "3" for No Activity should be entered in the Transaction Type (the 7th element) for these transactions.

Fire Department Transactions
The Fire Department Transactions records (record types 2000 through 2020) are provided for the transmission of specific fire department information. These records, when transmitted, need to be contained in a separate flat file (i.e. These records can not be transmitted as part of the incident flat file). When reporting begins under NFIRS 5.0, each department will need to submit an initial Fire Department Header Record (record type 2000) in a separate flat file so that basic information about each department can be established in the State database.

Sequence Numbering Methodologies
When multiple records can occur for a single type of transaction, the transactions employ one of two possible numbering methodologies. For both types of methodologies, the numbers must be incremented by one (1). In addition, the transaction records must occur in the file in their ascending sequential order (although the transaction records do not necessarily need to appear one after the other).

Zero Based
Numbers starting at 0 and incrementing by 1.

One Based
Numbers starting at 1 and incrementing by 1.

Data Types Legend

A (Alphabetic)
Alphabetic characters. If the user has not provided information, an empty field should be transmitted.

X (Text)
Alphanumeric or special characters. If the user has not provided information, an empty field should be transmitted.

N (Numeric)
Integer numbers (no decimal points). If the user has not provided information, an empty field should be transmitted. All Integer values are assumed to be positive. Any fields which allow a negative Integer value have been denoted with "+ or –" in the comment field. Negative numbers should be transmitted with the minus sign preceding the digits.

F (Floating Point)
Floating point precision numbers (The expected length column depicts the max left and right side precision). If the user has not provided information, an empty field should be transmitted.
C (Coded Field)
The coded field relating to an entry in the code table. Most coded fields allow for Plus+ One codes. For
these fields the expected length of the coded entry is depicted as (National length OR Plus+ One length).
Only fields with this notation in the expected length column allow for Plus+ One definitions. If the user has
not provided information, an empty field should be transmitted.

Y (Yes/No)
A (Y)es/(N)o flag. NOTE: This is case sensitive and must be capital Y or N. If the user has not provided
information, a value of N should be transmitted (if no value is transmitted, N is assumed).

Positive and Negative Numbers
Certain Numerical Fields can contain positive or negative numbers. When a numerical field has a value that is positive,
only the number should be given and the field length requirements should be observed.

However, when a field value is negative, the number should be preceded by a minus sign (-), and the field length require-
mets should be observed, without accounting for the minus sign.

Multiple Choice Fields
Fields that permit multiple values (e.g. a multiple choice coded field) must use a semi-colon (;) to separate the coded val-
ues. The field must ALWAYS end with a semi-colon, EXCEPT if the field contains no values.

Example:
Delimiter: ^
User had selected the following coded values (1,22,30).
(Prior fields) ^1;22;30;^ (Subsequent fields)
Note: If the field had been empty, the transaction record would appear as follows:
(Prior fields) ^^ (Subsequent fields)

Multiple Choice fields allow for Plus+ One codes (described above). A ‘MC’ in the Comments column designates multi-
ple Choice fields. In addition, the maximum number of responses allowed is noted in parenthesis.

If ‘None’ is the given response for a multiple choice questions, the ‘None’ code should be listed in the field. This allows
for the critical differentiation between a ‘None’ response and a field which had no response.

Date and Time
Date and Time field responses can have the following notations in the transaction, depending on the type of field (Date
Only or Date and Time).

<table>
<thead>
<tr>
<th>Field Type</th>
<th>Field Format</th>
<th>Scenario</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Only or Date and Time</td>
<td>Blank</td>
<td>No Date or Time Provided</td>
</tr>
<tr>
<td>Date Only</td>
<td>YYYYMMDD</td>
<td></td>
</tr>
<tr>
<td>Date and Time</td>
<td>YYYYMMDDHHMM</td>
<td>Seconds not recorded</td>
</tr>
<tr>
<td>Date and Time</td>
<td>YYYYMMDDHHMMSS</td>
<td>Seconds recorded</td>
</tr>
</tbody>
</table>

Zip Code
Zip Codes can be provided using either 5 or 9-digit notation. NOTE: No hyphens should be used when transmitting the 9-
digit notation.

<table>
<thead>
<tr>
<th>Zip Code</th>
<th>Type Field Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-digit Notation</td>
<td>NNNNN</td>
</tr>
<tr>
<td>9-digit notation</td>
<td>NNNNNNNNNN</td>
</tr>
</tbody>
</table>
User Defined Transactions

User may define their own NFIRS 5.0 transaction types in order to collect data fields not specified in the national NFIRS 5.0 standard. These fields may be defined by states or by local fire departments for their own use locally. The 7000 transaction series is reserved for local fire department use. The 8000 series is reserved for state use. The 9000 series is currently reserved for future national expansion.

In order to properly set up a user defined transaction, use these guidelines:

1. Each user defined transaction must contain the first seven key fields in the Incident Header (1000) transaction before beginning the user defined fields.
2. The user defined transactions must follow the same format and rules defined in this document for standard NFIRS 5.0 transactions.

### TABLE 3-6. Index of Transaction (Sheet 1 of 3)

<table>
<thead>
<tr>
<th>Trans ID</th>
<th>Transaction</th>
<th>Form</th>
<th>Section</th>
<th>Number Record Expected</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>Field Delimiter</td>
<td>NA</td>
<td>NA</td>
<td>1 per Transaction File</td>
<td>The first record in the transaction file must be the delimiter. The delimiter may be a multiple character string, and is used to delimit fields within all transaction records. NOTE: All transaction records must terminate with a delimiter.</td>
</tr>
<tr>
<td>N/A</td>
<td>Vendor ID and Software ID</td>
<td>NA</td>
<td>NA</td>
<td>1 per Transaction File</td>
<td>The second record in the transaction file must contain the Vendor ID, assigned as part of the vendor certification process and the software ID, for the particular version of the software used to generate the flat file. These fields need to be separated using the Field Delimiter.</td>
</tr>
<tr>
<td>1000</td>
<td>Incident Header</td>
<td>Basic</td>
<td>Section A</td>
<td>1 per Incident (Includes Exposure Transactions for Fire Incidents Only)</td>
<td>This transaction record contains the information collected as part of Section A. This record is the sole transaction required for No Activity incidents.</td>
</tr>
<tr>
<td>1005</td>
<td>Basic Incident</td>
<td>Basic</td>
<td>Section C, D, E1-E2, F, G1, G2, H1-H3,J</td>
<td>1 per Incident (Includes Exposure Transactions for Fire Incidents Only)</td>
<td>This transaction record contains the majority of the coded information contained on the Basic Form.</td>
</tr>
<tr>
<td>1010</td>
<td>Incident Address</td>
<td>Basic</td>
<td>Section B</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains the incident address information captured as part of the Basic form.</td>
</tr>
<tr>
<td>1020</td>
<td>Aid Given and Received</td>
<td>Basic</td>
<td>Section D</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains the information from the Aid Given and Received section of the Basic Form.</td>
</tr>
<tr>
<td>1030</td>
<td>Officer in Charge Authority</td>
<td>Basic</td>
<td>Section M</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains the Officer in Charge information captured on the Basic Form.</td>
</tr>
</tbody>
</table>
TABLE 3-6. Index of Transaction  (Sheet 2 of 3)

<table>
<thead>
<tr>
<th>Trans ID</th>
<th>Transaction</th>
<th>Form</th>
<th>Section</th>
<th>Number Record Expected</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1035</td>
<td>Member Making Report Authority</td>
<td>Basic</td>
<td>Section M</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains the Member making report information captured on the Basic Form.</td>
</tr>
<tr>
<td>1040</td>
<td>Incident Remarks</td>
<td>Basic</td>
<td>Section L1</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains all Remarks associated with the incident.</td>
</tr>
<tr>
<td>1050</td>
<td>Incident Persons Involved</td>
<td>Basic</td>
<td>Section K1</td>
<td>0 to 200 per Basic Incident Transaction</td>
<td>These transaction records contain the Person(s) Involved Information. Persons Involved captured on the Additional Form are included in this transaction record.</td>
</tr>
<tr>
<td>1055</td>
<td>Incident Owner</td>
<td>Basic</td>
<td>Section K2</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains the Owner Information captured as part of the Basic Form.</td>
</tr>
<tr>
<td>1060</td>
<td>Incident Special Studies</td>
<td>Basic</td>
<td>E3</td>
<td>0 to 200 per Basic Incident Transaction</td>
<td>These transaction records contain the Special Study Information for a particular incident. One record exists for each special study associated with an incident.</td>
</tr>
<tr>
<td>1100</td>
<td>Fire</td>
<td>Fire</td>
<td>Section B1 - B3, C, D1 - D4, E1 - E3</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains the majority of coded information captured on the Fire Form.</td>
</tr>
<tr>
<td>1110</td>
<td>File Attached</td>
<td>Fire</td>
<td>Local Use</td>
<td>0 or 1 per Fire Transaction</td>
<td>This transaction record contains the files attached information captured on the Fire Form.</td>
</tr>
<tr>
<td>1120</td>
<td>Fire Mobile Property Involved</td>
<td>Fire</td>
<td>Section H2</td>
<td>0 to 1 per Fire Transaction</td>
<td>This transaction record contains the Mobile Property Information that is gathered as part of the Fire Form.</td>
</tr>
<tr>
<td>1130</td>
<td>Fire Equipment Involved</td>
<td>Fire</td>
<td>Section F1</td>
<td>0 to 1 per Fire Transaction</td>
<td>This transaction record contains the Equipment Involved Information which is gathered as part of the Fire Form.</td>
</tr>
<tr>
<td>1200</td>
<td>Structure Fire</td>
<td>Structure Fire</td>
<td>All</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains all the information captured on the Structure Fire Form.</td>
</tr>
<tr>
<td>1300</td>
<td>Wildland Fire</td>
<td>Wildland</td>
<td>All</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains all the information captured on the Wildland Form.</td>
</tr>
<tr>
<td>1400</td>
<td>Civilian Fire Casualty</td>
<td>Civilian Fire Casualty</td>
<td>All</td>
<td>0 to many per Basic Incident Transaction</td>
<td>This transaction record contains all the information captured on the Civilian Fire Casualty Form.</td>
</tr>
<tr>
<td>1500</td>
<td>Fire Service Casualty</td>
<td>Fire Service Casualty</td>
<td>Section B - K1</td>
<td>0 to many per Basic Incident Transaction</td>
<td>This transaction record contains the majority of the information captured on the Fire Service Casualty Form.</td>
</tr>
</tbody>
</table>
TABLE 3-6.  Index of Transaction  (Sheet 3 of 3)

<table>
<thead>
<tr>
<th>Trans ID</th>
<th>Transaction Description</th>
<th>Form Description</th>
<th>Section</th>
<th>Number Record Expected</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1510</td>
<td>Fire Service Casualty Equipment Failure</td>
<td>Fire Service Casualty</td>
<td>Section K2 - K4</td>
<td>0 to 200 per Fire Service Casualty Transaction</td>
<td>These transaction records contain the protective equipment failure information captured as part of the Fire Service Casualty Form.</td>
</tr>
<tr>
<td>1600</td>
<td>EMS Patient</td>
<td>EMS</td>
<td>All</td>
<td>0 to many per Basic Incident Transaction</td>
<td>These transaction records contain the information captured on the EMS Form.</td>
</tr>
<tr>
<td>1700</td>
<td>HazMat</td>
<td>HazMat</td>
<td>Section F1 - L, O</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains the information gathered for the first hazardous material in an incident.</td>
</tr>
<tr>
<td>1710</td>
<td>HazMat Chemicals</td>
<td>HazMat</td>
<td>Section B - E2</td>
<td>1 to 200 per HazMat Transaction</td>
<td>These transaction records contain the specific chemical information gathered on the HazMat Form.</td>
</tr>
<tr>
<td>1720</td>
<td>HazMat Mobile Property Involved</td>
<td>HazMat</td>
<td>Section N</td>
<td>0 to 1 per HazMat Transaction</td>
<td>This transaction record contains the Mobile Property Information that is gathered as part of the HazMat form.</td>
</tr>
<tr>
<td>1730</td>
<td>HazMat Equipment Involved</td>
<td>HazMat</td>
<td>Section M</td>
<td>0 to 1 per HazMat Transaction</td>
<td>This transaction record contains the Equipment Involved Information which is gathered as part of the HazMat Form.</td>
</tr>
<tr>
<td>1800</td>
<td>Incident Apparatus</td>
<td>Apparatus Form or Resources Form</td>
<td>NA</td>
<td>0 to 200 per Basic Incident Transaction</td>
<td>These transaction records contain the Apparatus information captured on the Apparatus Form and Resources Form.</td>
</tr>
<tr>
<td>1810</td>
<td>Incident Resources</td>
<td>Resources Form</td>
<td>NA</td>
<td>0 to 200 per Incident Apparatus Transaction</td>
<td>These transaction records contain the Resource information captured on the Resources Form.</td>
</tr>
<tr>
<td>1900</td>
<td>Arson</td>
<td>Arson</td>
<td>Section C-L</td>
<td>0 or 1 per Basic Incident Transaction</td>
<td>This transaction record contains the information gathered as part of the Federal Arson Module.</td>
</tr>
<tr>
<td>1910</td>
<td>Arson Agency Referral</td>
<td>Arson</td>
<td>Section B</td>
<td>0 to 1 per Arson Transaction</td>
<td>This transaction record contains information regarding any Agency Referrals.</td>
</tr>
<tr>
<td>1920</td>
<td>Arson Juvenile Subject</td>
<td>Arson</td>
<td>Section M</td>
<td>0 to many per Arson Transaction</td>
<td>This transaction record contains the information gathered on each Juvenile Subject as part of the Arson Module.</td>
</tr>
</tbody>
</table>
### TABLE 3-7. Incident File Header Transaction

<table>
<thead>
<tr>
<th>Element Number</th>
<th>Element Name</th>
<th>Data Type</th>
<th>Special Formatting</th>
<th>Max or Expected Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fire Dept. ID</td>
<td>X</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Fire Dept. State</td>
<td>C</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Alarm Date</td>
<td>N</td>
<td></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Incident Number</td>
<td>N</td>
<td></td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Exposure Number</td>
<td>N</td>
<td></td>
<td>3</td>
<td>Zero Based</td>
</tr>
<tr>
<td>6</td>
<td>Record Type</td>
<td>N</td>
<td></td>
<td>5</td>
<td>Record Type:1000</td>
</tr>
<tr>
<td>7</td>
<td>Transaction Type</td>
<td>C</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Fire Department Station</td>
<td>X</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>NFIRS Version</td>
<td>F</td>
<td></td>
<td>2.2</td>
<td>*</td>
</tr>
</tbody>
</table>

* NFIRS Version – Refers to the version of NFIRS rules/edits used when generating this flat file. Initially the value for this field will be 5.0, but will change in the future as modifications and/or enhancements are made to the standard (e.g. 5.1).

### TABLE 3-8. Basic Incident Transaction  (Sheet 1 of 2)

<table>
<thead>
<tr>
<th>Element Number</th>
<th>Element Name</th>
<th>Data Type</th>
<th>Special Formatting</th>
<th>Max or Expected Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fire Dept. ID</td>
<td>X</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Fire Dept. State</td>
<td>C</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Alarm Date</td>
<td>N</td>
<td></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Incident Number</td>
<td>N</td>
<td></td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Exposure Number</td>
<td>N</td>
<td></td>
<td>3</td>
<td>Zero Based</td>
</tr>
<tr>
<td>6</td>
<td>Record Type</td>
<td>N</td>
<td></td>
<td>5</td>
<td>Record Type:1005</td>
</tr>
<tr>
<td>7</td>
<td>Transaction Type</td>
<td>C</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Incident Type</td>
<td>C</td>
<td></td>
<td>3 or 4</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Address on Wildland Flag</td>
<td>Y</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Aid Given or Received</td>
<td>C</td>
<td></td>
<td>1 or 2</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Alarm Date and Time</td>
<td>N</td>
<td></td>
<td>12 or 14</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Arrival Date and Time</td>
<td>N</td>
<td></td>
<td>12 or 14</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Incident Controlled Date and Time</td>
<td>N</td>
<td></td>
<td>12 or 14</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Last Unit Cleared Date and Time</td>
<td>N</td>
<td></td>
<td>12 or 14</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Shift</td>
<td>X</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Alarms</td>
<td>X</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>District</td>
<td>X</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Actions Taken</td>
<td>C</td>
<td></td>
<td>2 or 3</td>
<td>MC (Max of 3)</td>
</tr>
<tr>
<td>19</td>
<td>Resource Form Used Flag</td>
<td>Y</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Suppression Apparatus</td>
<td>N</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>EMS Apparatus</td>
<td>N</td>
<td></td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>
### TABLE 3-8. Basic Incident Transaction  (Sheet 2 of 2)

<table>
<thead>
<tr>
<th>Element Number</th>
<th>Element Name</th>
<th>Data Type</th>
<th>Special Formatting</th>
<th>Max or Expected Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Other Apparatus</td>
<td>N</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Suppression Personnel</td>
<td>N</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>EMS Personnel</td>
<td>N</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Other Personnel</td>
<td>N</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Resources Include Mutual Aid</td>
<td>Y</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Property Loss</td>
<td>N</td>
<td></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Contents Loss</td>
<td>N</td>
<td></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Property Value</td>
<td>N</td>
<td></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Contents Value</td>
<td>N</td>
<td></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Fire Service Deaths</td>
<td>N</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Other Deaths</td>
<td>N</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Fire Service Injuries</td>
<td>N</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Other Injuries</td>
<td>N</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Detector Allocated Occupants</td>
<td>C</td>
<td></td>
<td>1 or 2</td>
<td></td>
</tr>
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<td>36</td>
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TABLE 3-10. Aid Given or Received Transaction

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**TABLE 3-16. Incident Special Study Transactions**

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* Special Study Identification Number – In order to support National, State and Local Special Studies, each special study will be assigned a unique identification number. This number must be included with the Special Study transaction record to identify which special study the code belongs. This also allows for validation of special study codes.
TABLE 3-17. Fire Transaction

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* - Material Storage Use corresponds directly to the On-Site Materials listed in Field #12. The first code in On-Site Material is associated with the first Material Storage Use, the second code is associated with the second Material Storage Use, etc. Each On-Site Materials listed should have a corresponding Material Storage Use. (i.e. If 2 On-Site Materials are listed, Material Storage Use should have 2 entries).

** - Mobile Property Involved Code refers to the coded information captured in Section H1 of the Fire Form. This includes ‘None’ responses.
### TABLE 3-18. File Attached Transaction

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### TABLE 3-19. Fire Mobile Property Transaction

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### TABLE 3-20. Fire Equipment Involved Transaction

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### TABLE 3-21. Structure Fire Transaction  (Sheet 1 of 2)

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### TABLE 3-21. Structure Fire Transaction  (Sheet 2 of 2)

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<td>1 or 2</td>
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### TABLE 3-22. Wildland Fire Transaction  (Sheet 1 of 3)

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<td>25</td>
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<tr>
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<td>1 or 2</td>
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</tr>
<tr>
<td>27</td>
<td>Factor Contributing to Injury</td>
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<td></td>
<td>2 or 3</td>
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</tr>
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<td></td>
<td>2 or 3</td>
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</tr>
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<td>Where Injury Occurred</td>
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<td>+ or -</td>
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### TABLE 3-24. Fire Service Casualty Transaction  (Sheet 2 of 2)

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<th>Max or Expected Length</th>
<th>Comments</th>
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<td>Vehicle Type</td>
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### TABLE 3-25. Fire Service Equipment Failure Transaction

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<th>Special Formatting</th>
<th>Max or Expected Length</th>
<th>Comments</th>
</tr>
</thead>
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</tr>
<tr>
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<td>Fire Dept. State</td>
<td>C</td>
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</tr>
<tr>
<td>3</td>
<td>Alarm Date</td>
<td>N</td>
<td></td>
<td>8</td>
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</tr>
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<td>4</td>
<td>Incident Number</td>
<td>N</td>
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<td>7</td>
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<td>5</td>
<td>Exposure Number</td>
<td>N</td>
<td></td>
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<td>Zero Based</td>
</tr>
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<td></td>
</tr>
<tr>
<td>8</td>
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<td>N</td>
<td></td>
<td>3</td>
<td>One Based</td>
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<td>Equipment Failure Sequence Number</td>
<td>N</td>
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<td>3</td>
<td>One Based</td>
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<td>C</td>
<td></td>
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<td></td>
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<td>11</td>
<td>Equipment Problem</td>
<td>C</td>
<td></td>
<td>2 or 3</td>
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<td>Equipment Model</td>
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<td>12</td>
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<td>14</td>
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### TABLE 3-26. EMS Patient Transaction  (Sheet 1 of 2)

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<th>Special Formatting</th>
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<th>Comments</th>
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</thead>
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<tr>
<td>2</td>
<td>Fire Dept. State</td>
<td>C</td>
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<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Alarm Date</td>
<td>N</td>
<td></td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

The number of Injury Types codes supplied must correspond directly to the number of Body Sites Injured in Field #18.

Example: If 3 Body Site of Injury were supplied, a maximum of 3 Injury Types are allowed.

The Injury Type responses must be listed in the exact same order as the Body Sites to which they correspond.

Example: Given the Body Sites and Injury Types listed below, the transaction should look as follows. (Please note the codes are not real codes, but for illustrative purposes only)

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Body Site</th>
<th>Injury Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>#2</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>#3</td>
<td>3</td>
<td>C</td>
</tr>
</tbody>
</table>

Transaction Record: (Prior Fields)^1;2;3;"A;B;C;"(Subsequent Fields)
TABLE 3-26. EMS Patient Transaction  (Sheet 2 of 2)

<table>
<thead>
<tr>
<th>Element Number</th>
<th>Element Name</th>
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<th>Special Formatting</th>
<th>Max or Expected Length</th>
<th>Comments</th>
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</thead>
<tbody>
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<td></td>
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<td></td>
</tr>
<tr>
<td>5</td>
<td>Exposure Number</td>
<td>N</td>
<td></td>
<td>3 Zero Based</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Record Type</td>
<td>N</td>
<td></td>
<td>5 Record Type:1600</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Transaction Type</td>
<td>C</td>
<td></td>
<td>1</td>
<td></td>
</tr>
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<td>8</td>
<td>EMS Patient Sequence Number</td>
<td>N</td>
<td></td>
<td>3 One Based</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Arrived At Patient Date and Time</td>
<td>N</td>
<td></td>
<td>12 or 14</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Patient Transfer Date and Time</td>
<td>N</td>
<td></td>
<td>12 or 14</td>
<td></td>
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<tr>
<td>11</td>
<td>Provider Impression / Assessment</td>
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<td>2 or 3</td>
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</tr>
<tr>
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<td>Age</td>
<td>F</td>
<td></td>
<td>3.2</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Gender</td>
<td>C</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Race</td>
<td>C</td>
<td></td>
<td>1 or 2</td>
<td></td>
</tr>
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<td>15</td>
<td>Ethnicity</td>
<td>C</td>
<td></td>
<td>1 or 2</td>
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</tr>
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<td>1 or 2</td>
<td>MC (Max of 8)</td>
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<td>17</td>
<td>Other Factors</td>
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<td></td>
<td>1 or 2</td>
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<td>Body Sites of Injury</td>
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<td>1 or 2</td>
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<td>2 or 3</td>
<td>MC (See Below)</td>
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<td>2 or 3</td>
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<td></td>
<td>1 or 2</td>
<td>MC (Max of 2)</td>
</tr>
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<td>24</td>
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<td>1 or 2</td>
<td>MC (Max of 2)</td>
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<td>1 or 2</td>
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<td>Initial Level of Care</td>
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<td>1 or 2</td>
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<td></td>
<td>1 or 2</td>
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<tr>
<td>30</td>
<td>Disposition</td>
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<td>1 or 2</td>
<td></td>
</tr>
</tbody>
</table>

The number of Injury Types codes supplied must correspond directly to the number of Body Sites Injured in Field #18. 
Example: If 3 Body Site of Injury were supplied, a maximum of 3 Injury Types are allowed.

The Injury Type responses must be listed in the exact same order as the Body Sites to which they correspond.

Example: Given the Body Sites and Injury Types listed below, the transaction should look as follows. (Please note the codes are not real codes, but for illustrative purposes only)

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Body Site</th>
<th>Injury Type</th>
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<td>#1</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>#2</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>#3</td>
<td>3</td>
<td>C</td>
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</table>

Transaction Record: (Prior Fields)^1;2;3;^A;B;C;^(Subsequent Fields)
TABLE 3-27. Hazardous Material Transaction

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<th>Comments</th>
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<tr>
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<td>Alarm Date</td>
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</tr>
<tr>
<td>4</td>
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</tr>
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<td>5</td>
<td>Exposure Number</td>
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TABLE 3-28. Hazardous Material Chemical Transaction (Sheet 1 of 2)

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<th>Comments</th>
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<td>4</td>
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<td>Zero Based</td>
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### TABLE 3-28. Hazardous Material Chemical Transaction (Sheet 2 of 2)

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</tr>
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<td>Released Into</td>
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### TABLE 3-29. Hazardous Material Mobile Property Type

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<tr>
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<th>Data Type</th>
<th>Special Formatting</th>
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<th>Comments</th>
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<td>Fire Dept. State</td>
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<td>2</td>
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TABLE 3-30. Hazardous Material Equipment Involved Transaction

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TABLE 3-31. Incident Apparatus Transaction

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### TABLE 3-32. Incident Personnel Transaction

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<td>One Based</td>
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### TABLE 3-33. Arson Transaction (Sheet 1 of 2)

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### TABLE 3-33. Arson Transaction (Sheet 2 of 2)

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### TABLE 3-34. Arson Agency Referral Transaction

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TABLE 3-35. Arson Juvenile Subject Transaction

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</tr>
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<td></td>
<td>8</td>
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<td>4</td>
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TABLE 3-36. Index of Transactions

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<td>1 per Fire Department</td>
<td>This transaction record contains all the National information pertaining to a single Fire Department.</td>
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<td>0 to many per Fire Department</td>
<td>These transaction records contain Personnel information about firefighters for a particular fire department.</td>
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<td>Fire Department Apparatus</td>
<td>NA</td>
<td>NA</td>
<td>0 to many per Fire Department</td>
<td>These transaction records contain Apparatus information for apparatus located at a particular fire department.</td>
</tr>
</tbody>
</table>

The Fire Department Transactions records are provided for the transmission of specific fire department information. These records, when transmitted, need to be contained in a separate flat file (i.e. – They cannot be transmitted as part of the incident flat file).
### TABLE 3-37. Fire Department Header Transaction

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### TABLE 3-38. Fire Department Personnel Transaction (Sheet 1 of 2)

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### TABLE 3-38. Fire Department Personnel Transaction  (Sheet 2 of 2)

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### TABLE 3-39. Fire Department Apparatus Transaction

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Data Dictionary

The NFIRS 5.0 data dictionary codes that follow contain a shorter version of the code descriptors for the NFIRS 5.0 specification. These descriptors are a maximum of fifty (50) characters in length and are intended for use in automated NFIRS 5.0 data collection systems. The full length code descriptors are available in the NFIRS 5.0 Reference Guide available from the United States Fire Administration.

Important Notes For Developers:

Certain codes in the data dictionary are designated as conversion only codes in the following manner:

<table>
<thead>
<tr>
<th>Code #</th>
<th>Code Descriptor (conversion only)</th>
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</table>

Codes that are identified in this manner are used solely to store data converted from the NFIRS 4.1 format and are never used for the collection of data in NFIRS 5.0. Under no circumstances should these codes ever be included in automated data entry systems’ code look-ups, pick-lists or code tables. Including the “conversion only” codes in such a manner will result in a failure to successfully complete NFIRS 5.0 software certification. Also note that in some cases the (conversion only) designation at the end of codes may make the total descriptor length exceed 50 characters. Since these codes are not to be used to collect data, this should not have an impact on the descriptor field size.

Please note that for the numeric code values listed in the following pages, hierarchical code placeholders are used. These placeholders are not themselves valid codes used for data entry. Instead they are used as section titles for code groups and are intended for use in automated pick-lists and database groupings used by data analysts. They should never be allowed as valid choices for data entry and will be rejected as invalid by the NFIRS 5.0 edits. Some examples of code placeholders are "1 Fire" and "10 Fire, other" in the Incident Type field listing below.

Tables for all of the data dictionaries can be obtained on the USFA Web site at:

http://www.nfirs.fema.gov/documentation/design/
Data Dictionary - Basic Module

Basic Module Data Dictionary

Location Type - Section B
1 Street Address
2 Intersection
3 In front of
4 Rear of
5 Adjacent to
6 Directions
7 U.S. National Grid

Street Prefix or Street Suffix - Section B
E East
N North
S South
W West
NE Northeast
NW Northwest
SE Southeast
SW Southwest

Street Type - Section B
ALY Alley
ANX Annex
ARC Arcade
AVE Avenue
BCH Beach
BND Bend
BLF Bluff
BLFS Bluffs
BTM Bottom
BLVD Boulevard
BR Branch
BRG Bridge
BRK Brook
BRKS Brooks
BG Burg
BGS Burgs
BYP Bypass
CP Camp
CYN Canyon
CPE Cape
CSWY Causeway
CTR Center
CTRS Centers
CIR Circle
CIRS Circles
CLF Cliff
CLFS Cliffs
CLB Club
CMN Common
CMNS Commons
COR Corner
CORS Corners
CT Court
CTS Courts
CV Cove
CVS Coves
CRK Creek
CRES Crescent
CRST Crest
XING Crossing
XRD Crossroad
XRDS Crossroads
CURV Curve
DL Dale
DM Dam
DV Divide
DR Drive
DRS Drives
EST Estate
ESTS Estates
EXPY Expressway
EXT Extension
EXTS Extensions
FALL Fall
FLS Falls
FRY Ferry
FLD Field
FLDS Fields
FLT Flat
FLTS Flats
FRD Ford
FRDS Fords
FRST Forest
FRG Forge
### Street Type - Section B (continued)

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**State, U. S. Territory Abbreviations - Section B**

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<td>MO</td>
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<td>NJ</td>
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</tr>
<tr>
<td>NM</td>
<td>New Mexico</td>
</tr>
</tbody>
</table>
State, U. S. Territory Abbreviations - Section B (continued)

NY New York
NC North Carolina
ND North Dakota
OH Ohio
OK Oklahoma
OR Oregon
PA Pennsylvania
RI Rhode Island
SC South Carolina
SD South Dakota
TN Tennessee
TX Texas
UT Utah
VT Vermont
VA Virginia
WA Washington
WV West Virginia
WI Wisconsin
WY Wyoming
AS American Samoa
CZ Canal Zone
DD Department of Defense
GU Guam
FM Federated States of Micronesia
MH Marshall Islands
MP Northern Mariana Islands
PW Palau
PR Puerto Rico
UM US Minor Outlying Islands
VI Virgin Islands
NA Native American Tribal Authority
OO Other

Incident Type - Section C

1 Fire

10 Fire, other

11 Structure Fire

110 Structure fire, other (Conversion only).
111 Building fire.
112 Fires in structure other than in a building.
113 Cooking fire, confined to container.
114 Chimney or flue fire, confined to chimney or flue.
115 Incinerator overload or malfunction, fire confined.
116 Fuel burner/boiler malfunction, fire confined.
117 Commercial Compactor fire, confined to rubbish.
118 Trash or rubbish fire, contained.

12 Fire in mobile property used as a fixed structure

120 Fire in mobile property used as a fixed structure, other.
121 Fire in mobile home used as fixed residence.
122 Fire in motor home, camper, recreational vehicle.
123 Fire in portable building, fixed location.

13 Mobile property (vehicle) fire

130 Mobile property (vehicle) fire, other.
131 Passenger vehicle fire.
132 Road freight or transport vehicle fire.
133 Rail vehicle fire.
134 Water vehicle fire.
135 Aircraft fire.
136 Self-propelled motor home or recreational vehicle.
137 Camper or recreational vehicle (RV) fire.
138 Off-road vehicle or heavy equipment fire.

14 Natural vegetation fire

140 Natural vegetation fire, other.
141 Forest, woods or wildland fire.
142 Brush or brush-and-grass mixture fire.
143 Grass fire.

15 Outside rubbish fire

150 Outside rubbish fire, other.
151 Outside rubbish, trash or waste fire.
152 Garbage dump or sanitary landfill fire.
153 Construction or demolition landfill fire.
154 Dumpster or other outside trash receptacle fire.
155 Outside stationary compactor/compacted trash fire.

16 Special outside fire

160 Special outside fire, other.
161 Outside storage fire.
162 Outside equipment fire.
163 Outside gas or vapor combustion explosion.
164 Outside mailbox fire.

17 Cultivated vegetation, crop fire

170 Cultivated vegetation, crop fire, other.
171 Cultivated grain or crop fire.
172 Cultivated orchard or vineyard fire.
173 Cultivated trees or nursery stock fire.
### Incident Type - Section C  (continued)

<table>
<thead>
<tr>
<th>Incident Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Overpressure Rupture, Explosion, Overheat (no fire)</td>
</tr>
<tr>
<td>20</td>
<td>Overpressure rupture, explosion, overheat, other</td>
</tr>
<tr>
<td>200</td>
<td>Overpressure rupture, explosion, overheat other</td>
</tr>
<tr>
<td>21</td>
<td>Overpressure rupture from steam (no ensuing fire)</td>
</tr>
<tr>
<td>210</td>
<td>Overpressure rupture from steam, other</td>
</tr>
<tr>
<td>211</td>
<td>Overpressure rupture of steam pipe or pipeline.</td>
</tr>
<tr>
<td>212</td>
<td>Overpressure rupture of steam boiler.</td>
</tr>
<tr>
<td>213</td>
<td>Steam rupture of pressure or process vessel.</td>
</tr>
<tr>
<td>22</td>
<td>Overpressure rupture from air or gas (no fire)</td>
</tr>
<tr>
<td>220</td>
<td>Overpressure rupture from air or gas, other</td>
</tr>
<tr>
<td>221</td>
<td>Overpressure rupture of air or gas pipe/pipeline.</td>
</tr>
<tr>
<td>222</td>
<td>Overpressure rupture of boiler from air or gas.</td>
</tr>
<tr>
<td>223</td>
<td>Air or gas rupture of pressure or process vessel.</td>
</tr>
<tr>
<td>23</td>
<td>Overpressure rupture, chemical reaction (no fire)</td>
</tr>
<tr>
<td>231</td>
<td>Chemical reaction rupture of process vessel.</td>
</tr>
<tr>
<td>24</td>
<td>Explosion (no fire)</td>
</tr>
<tr>
<td>240</td>
<td>Explosion (no fire), other</td>
</tr>
<tr>
<td>241</td>
<td>Munitions or bomb explosion (no fire).</td>
</tr>
<tr>
<td>242</td>
<td>Blasting agent explosion (no fire).</td>
</tr>
<tr>
<td>243</td>
<td>Fireworks explosion (no fire).</td>
</tr>
<tr>
<td>25</td>
<td>Excessive heat, scorch burns with no ignition</td>
</tr>
<tr>
<td>251</td>
<td>Excessive heat, scorch burns with no ignition.</td>
</tr>
<tr>
<td>3</td>
<td>Rescue &amp; Emergency Medical Service Incident</td>
</tr>
<tr>
<td>30</td>
<td>Rescue, emergency medical call (EMS), other</td>
</tr>
<tr>
<td>300</td>
<td>Rescue, EMS incident, other</td>
</tr>
<tr>
<td>31</td>
<td>Medical assist</td>
</tr>
<tr>
<td>311</td>
<td>Medical assist, assist EMS crew.</td>
</tr>
<tr>
<td>32</td>
<td>Emergency medical service (EMS) Incident</td>
</tr>
<tr>
<td>320</td>
<td>Emergency medical service, other (Conversion only).</td>
</tr>
<tr>
<td>321</td>
<td>EMS call, excluding vehicle accident with injury.</td>
</tr>
<tr>
<td>322</td>
<td>Motor vehicle accident with injuries.</td>
</tr>
<tr>
<td>323</td>
<td>Motor vehicle/pedestrian accident (MV Ped).</td>
</tr>
<tr>
<td>324</td>
<td>Motor vehicle accident with no injuries.</td>
</tr>
<tr>
<td>33</td>
<td>Lock-In</td>
</tr>
<tr>
<td>331</td>
<td>Lock-in (if lock out, use 511).</td>
</tr>
<tr>
<td>34</td>
<td>Search for lost person</td>
</tr>
<tr>
<td>340</td>
<td>Search for lost person, other</td>
</tr>
<tr>
<td>341</td>
<td>Search for person on land</td>
</tr>
<tr>
<td>342</td>
<td>Search for person in water</td>
</tr>
<tr>
<td>343</td>
<td>Search for person underground</td>
</tr>
<tr>
<td>35</td>
<td>Extrication, rescue</td>
</tr>
<tr>
<td>350</td>
<td>Extrication, rescue, other</td>
</tr>
<tr>
<td>351</td>
<td>Extrication of victim(s) from building/structure.</td>
</tr>
<tr>
<td>352</td>
<td>Extrication of victim(s) from vehicle.</td>
</tr>
<tr>
<td>353</td>
<td>Removal of victim(s) from stalled elevator.</td>
</tr>
<tr>
<td>354</td>
<td>Trench/below-grade rescue</td>
</tr>
<tr>
<td>355</td>
<td>Confined space rescue</td>
</tr>
<tr>
<td>356</td>
<td>High-angle rescue</td>
</tr>
<tr>
<td>357</td>
<td>Extrication of victim(s) from machinery.</td>
</tr>
<tr>
<td>36</td>
<td>Water or ice-related rescue</td>
</tr>
<tr>
<td>360</td>
<td>Water &amp; ice-related rescue, other</td>
</tr>
<tr>
<td>361</td>
<td>Swimming/recreational water areas rescue.</td>
</tr>
<tr>
<td>362</td>
<td>Ice rescue</td>
</tr>
<tr>
<td>363</td>
<td>Swift water rescue</td>
</tr>
<tr>
<td>364</td>
<td>Surf rescue</td>
</tr>
<tr>
<td>365</td>
<td>Watercraft rescue</td>
</tr>
<tr>
<td>37</td>
<td>Electrical rescue</td>
</tr>
<tr>
<td>370</td>
<td>Electrical rescue, other</td>
</tr>
<tr>
<td>371</td>
<td>Electrocut or potential electrocution.</td>
</tr>
<tr>
<td>372</td>
<td>Trapped by power lines</td>
</tr>
<tr>
<td>38</td>
<td>Rescue or EMS standby</td>
</tr>
<tr>
<td>381</td>
<td>Rescue or EMS standby</td>
</tr>
<tr>
<td>4</td>
<td>Hazardous Condition (No Fire)</td>
</tr>
<tr>
<td>40</td>
<td>Hazardous condition, other</td>
</tr>
<tr>
<td>400</td>
<td>Hazardous condition, other</td>
</tr>
<tr>
<td>41</td>
<td>Combustible/flammable spills &amp; leaks</td>
</tr>
<tr>
<td>410</td>
<td>Combustible/flammable gas/liquid condition, other.</td>
</tr>
<tr>
<td>411</td>
<td>Gasoline or other flammable liquid spill.</td>
</tr>
<tr>
<td>412</td>
<td>Gas leak (natural gas or LPG)</td>
</tr>
<tr>
<td>413</td>
<td>Oil or other combustible liquid spill.</td>
</tr>
<tr>
<td>42</td>
<td>Chemical release, reaction, or toxic condition</td>
</tr>
<tr>
<td>420</td>
<td>Toxic condition, other</td>
</tr>
<tr>
<td>421</td>
<td>Chemical hazard (no spill or leak).</td>
</tr>
<tr>
<td>422</td>
<td>Chemical spill or leak</td>
</tr>
<tr>
<td>423</td>
<td>Refrigeration leak</td>
</tr>
<tr>
<td>424</td>
<td>Carbon monoxide incident</td>
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<tr>
<td>43</td>
<td>Radioactive condition</td>
</tr>
<tr>
<td>430</td>
<td>Radioactive condition, other</td>
</tr>
<tr>
<td>431</td>
<td>Radiation leak, radioactive material.</td>
</tr>
<tr>
<td>44</td>
<td>Electrical wiring/equipment problem.</td>
</tr>
<tr>
<td>440</td>
<td>Electrical wiring/equipment problem, other</td>
</tr>
<tr>
<td>441</td>
<td>Heat from short circuit (wiring), defective/worn.</td>
</tr>
<tr>
<td>442</td>
<td>Overheated motor</td>
</tr>
<tr>
<td>443</td>
<td>Breakdown of light ballast</td>
</tr>
<tr>
<td>444</td>
<td>Power line down</td>
</tr>
</tbody>
</table>
Incident Type - Section C (continued)

445 Arcing, shorted electrical equipment.

45 Biological hazard
451 Biological hazard, confirmed or suspected.

46 Accident, potential accident
460 Accident, potential accident, other.
461 Building or structure weakened or collapsed.
462 Aircraft standby.
463 Vehicle accident, general cleanup.

47 Explosive, bomb removal
471 Explosive, bomb removal (for bomb scare, use 721).

48 Attempted burning, illegal action
480 Attempted burning, illegal action, other.
481 Attempt to burn.
482 Threat to burn.

5 Service Call
50 Service call, other
500 Service Call, other.

51 Person in distress
510 Person in distress, other.
511 Lock-out.
512 Ring or jewelry removal.

52 Water problem
520 Water problem, other.
521 Water evacuation.
522 Water or steam leak.

53 Smoke, odor problem
531 Smoke or odor removal.

54 Animal problem or rescue
540 Animal problem, other.
541 Animal problem.
542 Animal rescue.

55 Public service assistance
550 Public service assistance, other.
551 Assist police or other governmental agency.
552 Police matter.
553 Public service.
554 Assist invalid.
555 Defective elevator, no occupants.

56 Unauthorized burning
561 Unauthorized burning.

57 Cover assignment, standby at fire station, move-up
571 Cover assignment, standby, moveup.

6 Good Intent Call
60 Good intent call, other
600 Good intent call, other.

61 Dispatched and canceled en route
611 Dispatched & canceled en route.

62 Wrong location, no emergency found
621 Wrong location.
622 No incident found on arrival at dispatch address.

63 Controlled burning
631 Authorized controlled burning.
632 Prescribed fire.

64 Vicinity alarm
641 Vicinity alarm (incident in other location).

65 Steam, other gas mistaken for smoke
650 Steam, other gas mistaken for smoke, other.
651 Smoke scare, odor of smoke.
652 Steam, vapor, fog or dust thought to be smoke.
653 Smoke from barbecue, tar kettle.

66 EMS call where party has been transported
661 EMS call, party transported by non-fire agency.

67 HazMat release investigation w/no HazMat
671 HazMat release investigation w/no HazMat.
672 Biological hazard investigation, none found.

7 False Alarm & False Call
70 False alarm and false call, other
700 False alarm or false call, other.

71 Malicious, mischievous false alarm
710 Malicious, mischievous false call, other.
711 Municipal alarm system, malicious false alarm.
712 Direct tie to FD, malicious false alarm.
713 Telephone, malicious false alarm.
714 Central station, malicious false alarm.
715 Local alarm system, malicious false alarm.

72 Bomb scare
721 Bomb scare - no bomb.

73 System or detector malfunction
730 System malfunction, other.
731 Sprinkler activation due to malfunction.
732 Extinguishing system activation due to malfunction.
733 Smoke detector activation due to malfunction.
734 Heat detector activation due to malfunction.
735 Alarm system sounded due to malfunction.
736 CO detector activation due to malfunction.
Incident Type - Section C (continued)

74 Unintentional system/detector operation (no fire)
740 Unintentional transmission of alarm, other.
741 Sprinkler activation, no fire - unintentional.
742 Extinguishing system activation.
743 Smoke detector activation, no fire - unintentional.
744 Detector activation, no fire - unintentional.
745 Alarm system activation, no fire - unintentional.
746 Carbon monoxide detector activation, no CO.
75 Biohazard scare
751 Biological hazard, malicious false report.
8 Severe Weather & Natural Disaster
800 Severe weather or natural disaster, other.
811 Earthquake assessment.
812 Flood assessment.
813 Wind storm, tornado/hurricane assessment.
814 Lightning strike (no fire).
815 Severe weather or natural disaster standby.
9 Special Incident Type
90 Special type of incident, other.
900 Special type of incident, other.
91 Citizen complaint
911 Citizen complaint.
UUU Undetermined incident type (Conversion only).

Aid Given or Received - Section D

1 Mutual aid received.
2 Automatic aid received.
3 Mutual aid given.
4 Automatic aid given.
5 Other aid given.
N None.

Actions Taken - Section F

1 Fire Control or Extinguishment
10 Fire control or extinguishment, other.
11 Extinguishment by fire service personnel.
12 Salvage & overhaul.
13 Establish fire lines (wildfire).
14 Contain fire (wildland).
15 Confine fire (wildland).
16 Control fire (wildland).
17 Manage prescribed fire (wildland).
2 Search & Rescue
20 Search & rescue, other.
21 Search.
22 Rescue, remove from harm.
23 Extricate, disentangle.
24 Recover body.
3 EMS & Transport
30 Emergency medical services, other.
31 Provide first aid & check for injuries.
32 Provide basic life support (BLS).
33 Provide advanced life support (ALS).
34 Transport person.
4 Hazardous Condition
40 Hazardous condition, other.
41 Identify, analyze hazardous materials.
42 HazMat detection, monitoring, sampling, & analysis.
43 Hazardous materials spill control and confinement.
44 Hazardous materials leak control & containment.
45 Remove hazard.
46 Decontaminate persons or equipment.
47 Decontaminate occupancy or area.
48 Remove hazardous materials.
5 Fires, Rescues & Hazardous Conditions
50 Fires, rescues & hazardous conditions, other.
51 Ventilate.
52 Forcible entry.
53 Evacuate area.
54 Determine if materials are non-hazardous.
55 Establish safe area.
56 Provide air supply.
57 Provide light or electrical power.
58 Operate apparatus or vehicle.
6 Systems & Services
60 Systems and services, other.
61 Restore municipal services.
62 Restore sprinkler or fire protection system.
63 Restore fire alarm system.
64 Shut down system.
65 Secure property.
66 Remove water.
7 Assistance
70 Assistance, other.
71 Assist physically disabled.
### Actions Taken - Section F (continued)
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>Assist animal.</td>
</tr>
<tr>
<td>73</td>
<td>Provide manpower.</td>
</tr>
<tr>
<td>74</td>
<td>Provide apparatus.</td>
</tr>
<tr>
<td>75</td>
<td>Provide equipment.</td>
</tr>
<tr>
<td>76</td>
<td>Provide water.</td>
</tr>
<tr>
<td>77</td>
<td>Control crowd.</td>
</tr>
<tr>
<td>78</td>
<td>Control traffic.</td>
</tr>
<tr>
<td>79</td>
<td>Assess severe weather or natural disaster damage.</td>
</tr>
</tbody>
</table>

### Information, Investigation & Enforcement
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>Information, investigation &amp; enforcement, other.</td>
</tr>
<tr>
<td>81</td>
<td>Incident command.</td>
</tr>
<tr>
<td>82</td>
<td>Notify other agencies.</td>
</tr>
<tr>
<td>83</td>
<td>Provide information to public or media.</td>
</tr>
<tr>
<td>84</td>
<td>Refer to proper authority.</td>
</tr>
<tr>
<td>85</td>
<td>Enforce codes.</td>
</tr>
<tr>
<td>86</td>
<td>Investigate.</td>
</tr>
</tbody>
</table>

### Fill-in, Standby
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>90</td>
<td>Fill-in, standby, other.</td>
</tr>
<tr>
<td>91</td>
<td>Fill-in or moveup.</td>
</tr>
<tr>
<td>92</td>
<td>Standby.</td>
</tr>
<tr>
<td>93</td>
<td>Cancelled en route.</td>
</tr>
<tr>
<td>00</td>
<td>Action taken, other.</td>
</tr>
</tbody>
</table>

**Detector**
- 1: Detector alerted occupants.
- 2: Detector did not alert occupants.
- U: Unknown.

### Hazardous Materials Release - Section H
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Natural gas: slow leak, no evac. or HazMat actions.</td>
</tr>
<tr>
<td>2</td>
<td>Propane gas - Less than a 21 lb. tank.</td>
</tr>
<tr>
<td>3</td>
<td>Gasoline - vehicle fuel tank or portable container.</td>
</tr>
<tr>
<td>4</td>
<td>Kerosene - fuel-burning equipment/portable storage.</td>
</tr>
<tr>
<td>5</td>
<td>Diesel fuel/fuel oil - vehicle fuel tank/portable.</td>
</tr>
<tr>
<td>6</td>
<td>Household/office solvent or chemical spill.</td>
</tr>
<tr>
<td>7</td>
<td>Motor oil - from engine or portable container.</td>
</tr>
<tr>
<td>8</td>
<td>Paint - spills less than 55 gallons.</td>
</tr>
<tr>
<td>0</td>
<td>Special HazMat actions required or spill &gt;= 55 gal.</td>
</tr>
<tr>
<td>N</td>
<td>None.</td>
</tr>
</tbody>
</table>

### Mixed Use Property - Section I
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Assembly use.</td>
</tr>
<tr>
<td>20</td>
<td>Educational use.</td>
</tr>
<tr>
<td>33</td>
<td>Medical use.</td>
</tr>
<tr>
<td>40</td>
<td>Residential use.</td>
</tr>
<tr>
<td>51</td>
<td>Row of stores.</td>
</tr>
<tr>
<td>53</td>
<td>Enclosed mall.</td>
</tr>
<tr>
<td>58</td>
<td>Business and residential use.</td>
</tr>
<tr>
<td>59</td>
<td>Office use.</td>
</tr>
<tr>
<td>60</td>
<td>Industrial use.</td>
</tr>
<tr>
<td>63</td>
<td>Military use.</td>
</tr>
<tr>
<td>65</td>
<td>Farm use.</td>
</tr>
<tr>
<td>00</td>
<td>Mixed use, other.</td>
</tr>
<tr>
<td>NN</td>
<td>Not mixed use.</td>
</tr>
</tbody>
</table>

### Property Use - Section J
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Property Use, Other</td>
</tr>
<tr>
<td>1</td>
<td>Assembly</td>
</tr>
<tr>
<td>100</td>
<td>Assembly, other.</td>
</tr>
<tr>
<td>110</td>
<td>Fixed-use recreation places, other.</td>
</tr>
<tr>
<td>111</td>
<td>Bowling establishment.</td>
</tr>
<tr>
<td>112</td>
<td>Billiard center, pool hall.</td>
</tr>
<tr>
<td>113</td>
<td>Electronic amusement center.</td>
</tr>
<tr>
<td>114</td>
<td>Ice rink: indoor, outdoor.</td>
</tr>
<tr>
<td>115</td>
<td>Roller rink: indoor or outdoor.</td>
</tr>
<tr>
<td>116</td>
<td>Swimming facility: indoor or outdoor.</td>
</tr>
<tr>
<td>120</td>
<td>Variable-use amusement, recreation places, other.</td>
</tr>
<tr>
<td>121</td>
<td>Ballroom, gymnasium.</td>
</tr>
<tr>
<td>122</td>
<td>Convention center, exhibition hall.</td>
</tr>
<tr>
<td>123</td>
<td>Stadium, arena.</td>
</tr>
<tr>
<td>124</td>
<td>Playground.</td>
</tr>
<tr>
<td>129</td>
<td>Amusement center: indoor/outdoor.</td>
</tr>
<tr>
<td>130</td>
<td>Places of worship, funeral parlors, other.</td>
</tr>
<tr>
<td>131</td>
<td>Church, mosque, synagogue, temple, chapel.</td>
</tr>
<tr>
<td>134</td>
<td>Funeral parlor.</td>
</tr>
<tr>
<td>140</td>
<td>Clubs, other.</td>
</tr>
<tr>
<td>141</td>
<td>Athletic/health club.</td>
</tr>
<tr>
<td>142</td>
<td>Clubhouse.</td>
</tr>
<tr>
<td>143</td>
<td>Yacht Club.</td>
</tr>
<tr>
<td>144</td>
<td>Casino, gambling clubs.</td>
</tr>
<tr>
<td>150</td>
<td>Public or government, other.</td>
</tr>
<tr>
<td>151</td>
<td>Library.</td>
</tr>
<tr>
<td>152</td>
<td>Museum.</td>
</tr>
<tr>
<td>Property Use - Section J (continued)</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>---</td>
</tr>
<tr>
<td>154       Memorial structure, including monuments &amp; statues.</td>
<td>400 Residential, other.</td>
</tr>
<tr>
<td>155       Courthouse.</td>
<td>419 1 or 2 family dwelling.</td>
</tr>
<tr>
<td>160       Eating, drinking places, other.</td>
<td>429 Multifamily dwelling.</td>
</tr>
<tr>
<td>161       Restaurant or cafeteria.</td>
<td>439 Boarding/rooming house, residential hotels.</td>
</tr>
<tr>
<td>162       Bar or nightclub.</td>
<td>449 Hotel/motel, commercial.</td>
</tr>
<tr>
<td>170       Passenger terminal, other.</td>
<td>459 Residential board and care.</td>
</tr>
<tr>
<td>171       Airport passenger terminal.</td>
<td>460 Dormitory-type residence, other.</td>
</tr>
<tr>
<td>173       Bus station.</td>
<td>462 Sorority house, fraternity house.</td>
</tr>
<tr>
<td>174       Rapid transit station.</td>
<td>464 Barracks, dormitory.</td>
</tr>
<tr>
<td>180       Studio/theater, other.</td>
<td>5 Mercantile, Business</td>
</tr>
<tr>
<td>181       Live performance theater.</td>
<td>500 Mercantile, business, other.</td>
</tr>
<tr>
<td>182       Auditorium, concert hall.</td>
<td>511 Convenience store.</td>
</tr>
<tr>
<td>183       Movie theater.</td>
<td>519 Food and beverage sales, grocery store.</td>
</tr>
<tr>
<td>185       Radio, television studio.</td>
<td>529 Textile, wearing apparel sales.</td>
</tr>
<tr>
<td>186       Film/movie production studio.</td>
<td>539 Household goods, sales, repairs.</td>
</tr>
<tr>
<td>2         Educational</td>
<td>549 Specialty shop.</td>
</tr>
<tr>
<td>200       Educational, other.</td>
<td>557 Personal service, including barber &amp; beauty shops.</td>
</tr>
<tr>
<td>210       Schools, non-adult, other.</td>
<td>559 Recreational, hobby, home repair sales, pet store.</td>
</tr>
<tr>
<td>211       Preschool.</td>
<td>564 Laundry, dry cleaning.</td>
</tr>
<tr>
<td>213       Elementary school, including kindergarten.</td>
<td>569 Professional supplies, services.</td>
</tr>
<tr>
<td>215       High school/junior high school/middle school.</td>
<td>571 Service station, gas station.</td>
</tr>
<tr>
<td>241       Adult education center, college classroom.</td>
<td>579 Motor vehicle or boat sales, services, repair.</td>
</tr>
<tr>
<td>250       Day care, other (Conversion only).</td>
<td>580 General retail, other.</td>
</tr>
<tr>
<td>254       Day care, in commercial property.</td>
<td>581 Department or discount store.</td>
</tr>
<tr>
<td>255       Day care, in residence, licensed.</td>
<td>592 Bank.</td>
</tr>
<tr>
<td>256       Day care in residence, unlicensed.</td>
<td>593 Office: veterinary or research.</td>
</tr>
<tr>
<td>3         Health Care, Detention &amp; Correction</td>
<td>596 Post office or mailing firms.</td>
</tr>
<tr>
<td>300       Health care, detention, &amp; correction, other.</td>
<td>599 Business office.</td>
</tr>
<tr>
<td>311       24-hour care Nursing homes, 4 or more persons.</td>
<td>6 Industrial, Utility, Defense, Agriculture, Mining</td>
</tr>
<tr>
<td>312       Mental retardation/development disability facility.</td>
<td>600 Ind., utility, defense, agriculture, mining, other.</td>
</tr>
<tr>
<td>321       Alcohol or substance abuse recovery center.</td>
<td>610 Energy production plant, other.</td>
</tr>
<tr>
<td>322       Asylum, mental institution.</td>
<td>614 Steam or heat-generating plant.</td>
</tr>
<tr>
<td>331       Hospital - medical or psychiatric.</td>
<td>615 Electric-generating plant.</td>
</tr>
<tr>
<td>332       Hospices.</td>
<td>629 Laboratory or science laboratory.</td>
</tr>
<tr>
<td>340       Clinics, doctors offices, hemodialysis cntr, other.</td>
<td>631 Defense, military installation.</td>
</tr>
<tr>
<td>341       Clinic, clinic-type infirmary.</td>
<td>635 Computer center.</td>
</tr>
<tr>
<td>342       Doctor, dentist or oral surgeon office.</td>
<td>639 Communications center.</td>
</tr>
<tr>
<td>343       Hemodialysis unit.</td>
<td>640 Utility or Distribution system, other.</td>
</tr>
<tr>
<td>361       Jail, prison (not juvenile).</td>
<td>642 Electrical distribution.</td>
</tr>
<tr>
<td>363       Reformatory, juvenile detention center.</td>
<td>644 Gas distribution, gas pipeline.</td>
</tr>
<tr>
<td>365       Police station.</td>
<td>645 Flammable liquid distribution, F.L. pipeline.</td>
</tr>
<tr>
<td>4         Residential</td>
<td>647 Water utility.</td>
</tr>
<tr>
<td>400       Residential, other.</td>
<td>648 Sanitation utility.</td>
</tr>
</tbody>
</table>
Data Dictionary - Basic Module

Property Use - Section J (continued)
655  Crops or orchard.
659  Livestock production.
669  Forest, timberland, woodland.
679  Mine, quarry.
7  Manufacturing, Processing
700  Manufacturing, processing.
8  Storage
800  Storage, other.
807  Outside material storage area.
808  Outbuilding or shed.
816  Grain elevator, silo.
819  Livestock, poultry storage.
839  Refrigerated storage.
849  Outside storage tank.
880  Vehicle storage, other.
881  Parking garage, (detached residential garage).
882  Parking garage, general vehicle.
888  Fire station.
891  Warehouse.
899  Residential or self-storage units.
898  Dock, marina, pier, wharf.
9  Outside or Special Property
900  Outside or special property, other.
919  Dump, sanitary landfill.
921  Bridge, trestle.
922  Tunnel.
926  Outbuilding, protective shelter.
931  Open land or field.
935  Campsite with utilities.
936  Vacant lot.
937  Beach.
938  Graded and cared-for plots of land.
940  Water area, other.
941  Open ocean, sea or tidal waters.
946  Lake, river, stream.
951  Railroad right-of-way.
952  Railroad yard.
960  Street, other.
961  Highway or divided highway.
962  Residential street, road or residential driveway.
963  Street or road in commercial area.
965  Vehicle parking area.
972  Aircraft runway.
973  Aircraft taxiway.
974  Aircraft loading area.
981  Construction site.
982  Oil or gas field.
983  Pipeline, power line or other utility right-of-way.
984  Industrial plant yard - area.
NNN  None.
UUU  Undetermined.

Name Prefix
MR  Mr.
MRS  Mrs.
MS  Ms.
DR  Doctor.
REV  Reverend.

Name Suffix
JR  Junior.
SR  Senior.
I  The First.
II  The Second.
III  The Third.
IV  The Fourth.
MD  Medical Doctor.
DDS  Doctor of Dental Science.
## On-Site Materials or Products - Section C

### 1 Foods, Beverages, Agriculture
- **100** Foods, beverages, agriculture, other.
- **11** Food
  - **110** Food, other.
  - **111** Baked goods.
  - **112** Meat products, including poultry & fish.
  - **113** Dairy products.
  - **114** Produce, fruit or vegetables.
  - **115** Sugar, spices.
  - **116** Deli products.
  - **117** Cereals, grains; packaged.
  - **118** Fat/cooking grease, including lard & animal fat.
- **12** Beverages
  - **120** Beverages, other.
  - **121** Alcoholic beverage.
  - **122** Nonalcoholic beverage.
- **13** Agriculture
  - **130** Agriculture, other.
  - **131** Trees, plants, flowers.
  - **132** Feed, grain, seed.
  - **133** Hay, straw.
  - **134** Crop, not grain.
  - **135** Livestock.
  - **136** Pets.
  - **137** Pesticides.
  - **138** Fertilizer.

### 2 Personal & Home Products
- **200** Personal & home products, other.
- **21** Fabrics
  - **210** Fabrics, other.
  - **211** Curtains, drapes.
  - **212** Linens.
  - **213** Bedding.
  - **214** Cloth, yarn, dry goods.
- **22** Wearable products
  - **220** Wearable products, other.
  - **221** Clothes.
  - **222** Footwear.
  - **223** Eyeglasses.
  - **225** Perfumes, colognes, cosmetics.
- **23** Accessories
  - **230** Accessories, other.
  - **231** Jewelry, watches.
  - **232** Luggage, suitcases.
  - **233** Purses, satchels, briefcases, wallets, belts.
- **24** Furnishings
  - **240** Furnishings, other.
  - **241** Furniture.
  - **242** Beds, mattresses.
  - **243** Clocks.
  - **244** Houseware.
  - **245** Glass, ceramics, china, pottery, stoneware.
  - **246** Silverware.
- **3** Raw Materials
  - **300** Raw materials, other.
  - **31** Wood
    - **310** Wood, other.
    - **311** Lumber, sawn wood.
    - **312** Timber.
    - **313** Cork.
    - **314** Pulp.
    - **315** Sawdust, wood chips.
  - **32** Fibers
    - **320** Fibers, other.
    - **321** Cotton.
    - **322** Wool.
    - **323** Silk.
  - **33** Animal skins
    - **330** Animal skins, other.
    - **331** Leather.
    - **332** Fur.
  - **34** Other Raw Materials
    - **340** Ore.
    - **341** Rubber.
    - **342** Plastics.
    - **343** Fiberglass.
    - **344** Salt.
- **4** Paper Products, Rope
  - **400** Paper products, rope, other.
- **41** Paper products
  - **410** Paper products, other.
  - **411** Newspaper, magazines.
On-Site Materials - Section C (continued)

412 Books.
413 Greeting cards.
414 Paper, rolled.
415 Cardboard.
416 Packaged paper products, including stationery.
417 Paper records or reports.

42 **Rope, twine, cordage**
421 Rope, twine, cordage.

5 **Flammables, Chemicals, Plastics**
500 Flammables, chemicals, plastics, other.
51 **Flammables, combustible liquids**
510 Flammables, combustible liquids, other.
511 Gasoline, diesel fuel.
512 Flammable liquid, not gasoline.
513 Combustible liquid, including heating oil.
514 Motor oil.
515 Heavy oils, grease, noncooking related.
516 Asphalt.
517 Adhesive, resin, tar.

52 **Flammable gases**
520 Flammable gases, other.
521 Natural gas.
522 LP gas, butane, propane.
523 Hydrogen gas.

53 **Solid fuel, coal type**
530 Solid fuel, coal type, other.
531 Charcoal.
532 Coal.
533 Peat.
534 Coke.

54 **Chemicals, drugs**
540 Chemicals, drugs, other.
541 Hazardous chemicals.
542 Nonhazardous chemicals.
543 Cleaning supplies.
544 Pharmaceuticals, drugs.
545 Illegal drugs.

55 **Radioactive materials**
551 Radioactive materials.

6 **Construction, Machinery, Metals**
600 Construction, machinery, metals, other.
61 **Machinery, tools**
610 Machinery, tools, other.
611 Industrial machinery.
612 Machine parts.
613 Tools (power & hand tools).

62 **Construction supplies**
620 Construction supplies, other.
621 Hardware products.
622 Construction & home improvement products.
623 Pipes, fittings.
624 Stone-working materials.
625 Lighting fixtures and lamps.
626 Electrical parts, supplies, equipment.
627 Insulation.
628 Abrasives.
629 Fencing, fence supplies.

63 **Floor & wall coverings**
630 Floor & wall coverings, other.
631 Carpets, rugs.
632 Linoleum, tile.
633 Ceramic tile.
634 Wallpaper.
635 Paint.

64 **Metal products**
640 Metal products, other.
641 Steel, iron products.
642 Nonferrous metal products.
643 Combustible metals products.

7 **Appliances, Electronics, Medical, Laboratory**
700 Appliances, electronics, medical, lab, other.

71 **Appliances, electronics**
710 Appliances, electronics, other.
711 Appliances.
712 Electronic parts, supplies, equipment.
713 Electronic media.
714 Photographic equipment, supplies, materials.

72 **Medical, laboratory products**
720 Medical, laboratory products, other.
721 Dental supplies.
722 Medical supplies.
723 Optical products.
724 Veterinary supplies.
725 Laboratory supplies.

8 **Vehicles, Vehicle Parts**
On-Site Materials - Section C (continued)

800 Vehicles, other (Conversion only).

81 Motor vehicles
810 Motor vehicles & parts, other.
811 Autos, trucks, buses, recreational vehicles.
812 Construction vehicles.
813 Motor vehicle parts, not including tires.
814 Tires.

82 Watercraft
820 Watercraft, other.
821 Boats, ships.

83 Aircraft
830 Aircraft, other.
831 Planes, airplaness.
832 Helicopters.

84 Rail
840 Rail, other.
841 Trains, light rail, rapid transit cars.
842 Rail equipment.

85 Non-motorized vehicles
850 Non-motorized vehicles, other.
851 Bicycles, tricycles, unicycles.

9 Other Products
91 Containers, packing materials
910 Containers, packing materials, other.
911 Bottles, barrels, boxes.
912 Packing material.
913 Pallets.

92 Previously owned products
920 Previously owned products, other.
921 Antiques.
922 Collectibles.
923 Used merchandise.

93 Ordnance, explosives, fireworks
930 Ordnance, explosives, fireworks, other.
931 Guns.
932 Ammunition.
933 Explosives.
934 Fireworks, comercially made.
935 Rockets, missiles.

94 Recreation, arts (products)
940 Recreation, arts products, other.
941 Musical instruments.
942 Hobby, crafts.
943 Art supply/artwork.
944 Sporting goods.
945 Camping, hiking, outdoor products.
946 Games, toys.

95 Mixed sales products
950 Mixed sales products, other.
951 Office supplies.
952 Restaurant supplies, not including food.

96 Discarded material
960 Discarded material, other.
961 Junkyard materials.
962 Recyclable materials.
963 Trash, not recyclable.

000 On-site materials, other.
NNN None.
UUU Undetermined.

On-site Materials Storage Use - Section C

1 Bulk storage or warehousing.
2 Processing or manufacturing.
3 Packaged goods for sale.
4 Repair or service.
N None.
U Undetermined.

Area of Fire Origin - Section D1

0 Means of Egress
01 Hallway corridor, mall.
02 Exterior stairway, ramp, or fire escape.
03 Interior stairway or ramp.
04 Escalator - exterior, interior.
05 Entrance way, lobby.
09 Egress/exit, other.

1 Assembly, Sales Areas (Groups of People)
11 Arena, assembly area w/ fixed seats - 100+ persons.
12 Assembly area without fixed seats - 100+ persons.
13 Assembly area - less than 100 persons.
14 Common room, den, family room, living room, lounge.
15 Sales area, showroom (exclude display window).
16 Art gallery, exhibit hall, library.
17 Swimming pool.
10 Assembly or sales area, other.
Area of Fire Origin - Section D (continued)

2 Function Areas
21 Bedroom - < 5 persons; included are jail or prison.
22 Bedroom - 5+ persons; including barrack/dormitory.
23 Bar area, beverage service area, cafeteria.
24 Cooking area, kitchen.
25 Bathroom, checkroom, lavatory, locker room.
26 Laundry area, wash house (laundry).
27 Office.
28 Personal service area, barber/beauty salon area.
20 Function areas, other.
3 Technical Processing Areas
31 Laboratory.
32 Dark room, photography area, or printing area.
33 Treatment - first aid area, surgery area.
34 Surgery area - major operations, operating room.
35 Computer room, control room or center.
36 Stage area - performance, basketball court, boxing.
37 Projection room, spotlight area.
38 Processing/manufacturing area, workroom.
30 Technical processing areas, other.
4 Storage Areas
41 Storage room, area, tank, or bin.
42 Closet.
43 Storage: supplies or tools; dead storage.
44 Records storage room, storage vault.
45 Shipping/receiving area; loading area, dock or bay.
46 Chute/container - trash, rubbish, waste.
47 Vehicle storage area; garage, carport.
40 Storage area, other.
5 Service Areas
51 Dumbwaiter or elevator shaft.
52 Conduit, pipe, utility, or ventilation shaft.
53 Light shaft.
54 Chute; laundry or mail, excluding trash chutes.
55 Duct: HVAC, cable, exhaust, heating, or AC.
56 Display window.
57 Chimney (conversion only).
58 Conveyor.
50 Service facilities, other.
6 Service, Equipment Areas
61 Machinery room or area; elevator machinery room.
62 Heating room or area, water heater area.
63 Switchgear area, transformer vault.
64 Incinerator area.
65 Maintenance shop or area, paint shop or area.
66 Cell, test.
67 Enclosure, pressurized air.
68 Enclosure with enriched oxygen atmosphere.
60 Equipment or service area, other.
7 Structural Areas
71 Substructure area or space, crawl space.
72 Exterior balcony, unenclosed porch.
73 Ceiling & floor assembly, crawl space between stories.
74 Attic: vacant, crawl space above top story, cupola.
75 Wall assembly, concealed wall space.
76 Wall surface: exterior.
77 Roof surface: exterior.
78 Awning.
70 Structural area, other.
8 Transportation, Vehicle Areas
81 Operator/passenger area of transportation equip.
82 Cargo/trunk area - all vehicles.
83 Engine area, running gear, wheel area.
84 Fuel tank, fuel line.
85 Separate operator/control area of transportation.
86 Exterior, exposed surface.
80 Vehicle area, other.
9 Other Area of Origin
91 Railroad right of way: on or near.
92 Highway, parking lot, street: on or near.
93 Courtyard, patio, porch, terrace.
94 Open area - outside: included are farmland, field.
95 Wildland, woods.
96 Construction/renovation area.
97 Multiple areas.
98 Vacant structural area.
90 Outside area, other.
00 Other.
UU Undetermined.

Heat Source - Section D:
1 Operating Equipment
11 Spark, ember or flame from operating equipment.
12 Radiated, conducted heat from operating equipment.
13 Electrical arcing.
Heat Source - Section D (continued)

10 Heat from powered equipment, other.
4 Hot or Smoldering Object
41 Heat, spark from friction.
42 Molten, hot material.
43 Hot ember or ash.
40 Hot or smoldering object, other.
5 Explosives, Fireworks
51 Munitions.
53 Blasting agent, primer cord, black powder fuse.
54 Fireworks.
55 Model and amateur rockets.
56 Incendiary device.
50 Explosive, fireworks, other.
6 Other Open Flame or Smoking Materials
61 Cigarette.
62 Pipe or cigar.
63 Heat from undetermined smoking material.
64 Match.
65 Lighter: cigarette, cigar.
66 Candle.
67 Warning or road flare; fusee.
68 Backfire from internal combustion engine.
69 Flame/torch used for lighting.
60 Heat from other open flame or smoking materials.
7 Chemical, Natural Heat Sources
71 Sunlight.
72 Spontaneous combustion, chemical reaction.
73 Lightning discharge.
74 Other static discharge.
70 Chemical, natural heat source, other.
8 Heat Spread from Another Fire
81 Heat from direct flame, convection currents.
82 Radiated heat from another fire.
83 Flying brand, ember, spark.
84 Conducted heat from another fire.
80 Heat spread from another fire, other.
9 Other Heat Sources
97 Multiple heat sources including multiple ignitions.
00 Heat source: other.
UU Undetermined.

Item First Ignited - Section D

1 Structural Component, Finish
10 Structural component or finish, other.
11 Exterior roof covering, surface, finish.
12 Exterior wall covering or finish.
13 Exterior trim, including doors.
14 Floor covering or rug/carpet/mat, surface.
15 Interior wall covering excluding drapes, etc.
16 Interior ceiling covering or finish.
17 Structural member or framing.
18 Thermal, acoustical insulation within wall, partition or floor/ceiling space.
2 Furniture, Utensils, Including Built-in Furniture
20 Furniture, utensils, other.
21 Upholstered sofa, chair, vehicle seats.
22 Non-upholstered chair, bench.
23 Cabinet (including built-in).
24 Ironing board.
25 Appliance housing or casing.
26 Household utensils.
3 Soft Goods, Wearing Apparel
30 Soft goods, wearing apparel, other.
31 Mattress, pillow.
32 Bedding: blanket, sheet, comforter.
33 Linen; other than bedding.
34 Wearing apparel not on a person.
35 Wearing apparel on a person.
36 Curtain, blind, drapery, tapestry.
37 Goods not made up, including fabrics & yard goods.
38 Luggage.
4 Adornment, Recreational Material, Signs
40 Adornment, recreational material, signs, other.
41 Christmas tree.
42 Decoration.
43 Sign, including outdoor signs such as billboards.
44 Chips, including wood chips.
45 Toy, game.
46 Awning, canopy.
47 Tarpaulin, tent.
5 Storage Supplies
50 Storage supplies, other.
51 Box, carton, bag, basket, barrel.
Item First Ignited - Section D3 (continued)

52 Material being used to make a product.
53 Pallet, skid (empty).
54 Cord, rope, twine, yarn.
55 Packing, wrapping material.
56 Baled goods or material.
57 Bulk storage.
58 Palletized material, material stored on pallets.
59 Rolled, wound material (paper, fabric).

6 Liquids, Piping, Filters
60 Liquids, piping, filters, other.
61 Atomized liquid, vaporized liquid, aerosol.
62 Flammable liquid/gas - in/from engine or burner.
63 Flammable liquid/gas - in/from final container.
64 Flammable liquid/gas in container or pipe.
65 Flammable liquid/gas - uncontained.
66 Pipe, duct, conduit, hose.
67 Pipe, duct, conduit, hose covering.
68 Filter, including evaporative cooler pads.

7 Organic Materials
70 Organic materials, other.
71 Agricultural crop, including fruits and vegetables.
72 Light vegetation - not crop, including grass.
73 Heavy vegetation - not crop, including trees.
74 Animal living or dead.
75 Human living or dead.
76 Cooking materials, including edible materials.
77 Feathers or fur, not on bird or animal.

8 General Materials
80 General materials, other (conversion only).
81 Electrical wire, cable insulation.
82 Transformer, including transformer fluids.
83 Conveyor belt, drive belt, V-belt.
84 Tire.
85 Railroad ties.
86 Fence, pole.
87 Fertilizer.
88 Pyrotechnics, explosives.

9 General Materials Continued
90 General materials continued (conversion only).
91 Book.
92 Magazine, newspaper, writing paper.
93 Adhesive.

94 Dust, fiber, lint, including sawdust and excelsior.
95 Film, residue, including paint & resin.
96 Rubbish, trash, waste.
97 Oily rags.
99 Multiple items first ignited.
00 Item First Ignited, Other.
UU Undetermined.

Type of Material First Ignited - Section D4

1 Flammable Gas
11 Natural gas.
12 LP gas.
13 Anesthetic gas.
14 Acetylene gas.
15 Hydrogen.
10 Flammable gas, other.

2 Flammable, Combustible Liquid
21 Ether, pentane type flammable liquid.
22 JP-4 jet fuel & methyl ethyl ketone type flammable.
23 Gasoline.
24 Turpentine, butyl alcohol type flammable liquid.
25 Kerosene, No.1 and 2 fuel oil, diesel fuel.
26 Cottonseed oil, creosote oil type combustible.
27 Cooking oil, transformer or lubricating oil.
20 Flammable or combustible liquid, other.

3 Volatile Solid or Chemical
31 Fat, grease, butter, margarine, lard.
32 Petroleum jelly and non-food grease.
33 Polish, paraffin, wax.
34 Adhesive, resin, tar, glue, asphalt, pitch.
35 Paint, varnish - applied.
36 Combustible metal, included are magnesium.
37 Solid chemical, included are explosives.
38 Radioactive material.
30 Volatile solid or chemical, other.

4 Plastics
41 Plastic.

5 Natural Product
51 Rubber, excluding synthetic rubbers.
52 Cork.
53 Leather.
54 Hay, straw.
55 Grain, natural fiber (preprocess).
### Type of Material First Ignited - Section D4 (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>56</td>
<td>Coal, coke, briquettes, peat.</td>
</tr>
<tr>
<td>57</td>
<td>Food, starch, excluding fat and grease (Code 31).</td>
</tr>
<tr>
<td>58</td>
<td>Tobacco.</td>
</tr>
<tr>
<td>50</td>
<td>Natural product, other.</td>
</tr>
<tr>
<td>6</td>
<td>Wood or Paper - Processed</td>
</tr>
<tr>
<td>61</td>
<td>Wood chips, sawdust, shavings.</td>
</tr>
<tr>
<td>62</td>
<td>Round timber, including round posts, poles.</td>
</tr>
<tr>
<td>63</td>
<td>Sawn wood, including all finished lumber.</td>
</tr>
<tr>
<td>64</td>
<td>Plywood.</td>
</tr>
<tr>
<td>65</td>
<td>Fiberboard, particleboard, and hardboard.</td>
</tr>
<tr>
<td>66</td>
<td>Wood pulp, wood fiber.</td>
</tr>
<tr>
<td>67</td>
<td>Paper, including cellulose, waxed paper.</td>
</tr>
<tr>
<td>68</td>
<td>Cardboard.</td>
</tr>
<tr>
<td>69</td>
<td>Wood or paper, processed, other.</td>
</tr>
<tr>
<td>7</td>
<td>Fabric, Textiles, Fur</td>
</tr>
<tr>
<td>71</td>
<td>Fabric, fiber, cotton, blends, rayon, wool.</td>
</tr>
<tr>
<td>74</td>
<td>Fur, silk, other fabric.</td>
</tr>
<tr>
<td>75</td>
<td>Wig.</td>
</tr>
<tr>
<td>76</td>
<td>Human hair.</td>
</tr>
<tr>
<td>77</td>
<td>Plastic-coated fabric.</td>
</tr>
<tr>
<td>70</td>
<td>Fabric, textile, fur, other.</td>
</tr>
<tr>
<td>8</td>
<td>Material Compounded with Oil</td>
</tr>
<tr>
<td>81</td>
<td>Linoleum.</td>
</tr>
<tr>
<td>82</td>
<td>Oilcloth.</td>
</tr>
<tr>
<td>86</td>
<td>Asphalt-treated material.</td>
</tr>
<tr>
<td>80</td>
<td>Material compounded with oil, other.</td>
</tr>
<tr>
<td>9</td>
<td>Other Material</td>
</tr>
<tr>
<td>99</td>
<td>Multiple types of material.</td>
</tr>
<tr>
<td>00</td>
<td>Type of material first ignited, other.</td>
</tr>
<tr>
<td>UU</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

### Cause of Ignition - Section E1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intentional.</td>
</tr>
<tr>
<td>2</td>
<td>Unintentional.</td>
</tr>
<tr>
<td>3</td>
<td>Failure of equipment or heat source.</td>
</tr>
<tr>
<td>4</td>
<td>Act of nature.</td>
</tr>
<tr>
<td>5</td>
<td>Cause under investigation.</td>
</tr>
<tr>
<td>0</td>
<td>Cause, other.</td>
</tr>
<tr>
<td>U</td>
<td>Cause undetermined after investigation.</td>
</tr>
</tbody>
</table>

### Factors Contributing To Ignition - Section E2

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Misuse of Material or Product</td>
</tr>
<tr>
<td>10</td>
<td>Misuse of material or product, other.</td>
</tr>
<tr>
<td>11</td>
<td>Abandoned or discarded materials or products.</td>
</tr>
<tr>
<td>12</td>
<td>Heat source too close to combustibles.</td>
</tr>
<tr>
<td>13</td>
<td>Cutting, welding too close to combustible.</td>
</tr>
<tr>
<td>14</td>
<td>Flammable liquid or gas spilled.</td>
</tr>
<tr>
<td>15</td>
<td>Improper fueling technique.</td>
</tr>
<tr>
<td>16</td>
<td>Flammable liquid used to kindle fire.</td>
</tr>
<tr>
<td>17</td>
<td>Washing part, painting with flammable liquid.</td>
</tr>
<tr>
<td>18</td>
<td>Improper container or storage procedure.</td>
</tr>
<tr>
<td>19</td>
<td>Playing with heat source.</td>
</tr>
<tr>
<td>2</td>
<td>Mechanical Failure, Malfunction</td>
</tr>
<tr>
<td>20</td>
<td>Mechanical failure, malfunction, other.</td>
</tr>
<tr>
<td>21</td>
<td>Automatic control failure.</td>
</tr>
<tr>
<td>22</td>
<td>Manual control failure.</td>
</tr>
<tr>
<td>23</td>
<td>Leak or break.</td>
</tr>
<tr>
<td>25</td>
<td>Worn out.</td>
</tr>
<tr>
<td>26</td>
<td>Backfire.</td>
</tr>
<tr>
<td>27</td>
<td>Improper fuel used.</td>
</tr>
<tr>
<td>3</td>
<td>Electrical Failure, Malfunction</td>
</tr>
<tr>
<td>30</td>
<td>Electrical failure, malfunction, other.</td>
</tr>
<tr>
<td>31</td>
<td>Water-caused short-circuit arc.</td>
</tr>
<tr>
<td>32</td>
<td>Short-circuit arc from mechanical damage.</td>
</tr>
<tr>
<td>33</td>
<td>Short-circuit arc from defective, worn insulation.</td>
</tr>
<tr>
<td>34</td>
<td>Unspecified short-circuit arc.</td>
</tr>
<tr>
<td>35</td>
<td>Arc from faulty contact, broken conductor.</td>
</tr>
<tr>
<td>36</td>
<td>Arc, spark from operating equipment.</td>
</tr>
<tr>
<td>37</td>
<td>Fluorescent light ballast.</td>
</tr>
<tr>
<td>4</td>
<td>Design, Manufacturing, Installation Deficiency</td>
</tr>
<tr>
<td>40</td>
<td>Design, manufacture, installation deficiency, other.</td>
</tr>
<tr>
<td>41</td>
<td>Design deficiency.</td>
</tr>
<tr>
<td>42</td>
<td>Construction deficiency.</td>
</tr>
<tr>
<td>43</td>
<td>Installation deficiency.</td>
</tr>
<tr>
<td>44</td>
<td>Manufacturing deficiency.</td>
</tr>
<tr>
<td>5</td>
<td>Operational Deficiency</td>
</tr>
<tr>
<td>50</td>
<td>Operational deficiency, other.</td>
</tr>
<tr>
<td>51</td>
<td>Collision, knock down, run over, turn over.</td>
</tr>
<tr>
<td>52</td>
<td>Accidentally turned on, not turned off.</td>
</tr>
<tr>
<td>53</td>
<td>Equipment unattended.</td>
</tr>
<tr>
<td>54</td>
<td>Equipment overloaded.</td>
</tr>
<tr>
<td>55</td>
<td>Failure to clean.</td>
</tr>
<tr>
<td>56</td>
<td>Improper startup/shutdown procedure.</td>
</tr>
<tr>
<td>57</td>
<td>Equipment not used for purpose intended.</td>
</tr>
<tr>
<td>58</td>
<td>Equipment not operated properly.</td>
</tr>
</tbody>
</table>
### Factors Contributing to Ignition - Section E2 (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Natural Condition</td>
</tr>
<tr>
<td>60</td>
<td>Natural condition, other.</td>
</tr>
<tr>
<td>61</td>
<td>High wind.</td>
</tr>
<tr>
<td>62</td>
<td>Storm.</td>
</tr>
<tr>
<td>63</td>
<td>High water including floods.</td>
</tr>
<tr>
<td>64</td>
<td>Earthquake.</td>
</tr>
<tr>
<td>65</td>
<td>Volcanic action.</td>
</tr>
<tr>
<td>66</td>
<td>Animal.</td>
</tr>
<tr>
<td>7</td>
<td>Fire Spread or Control</td>
</tr>
<tr>
<td>70</td>
<td>Fire spread or control, other.</td>
</tr>
<tr>
<td>71</td>
<td>Exposure fire.</td>
</tr>
<tr>
<td>72</td>
<td>Rekindle.</td>
</tr>
<tr>
<td>73</td>
<td>Outside/open fire for debris or waste disposal.</td>
</tr>
<tr>
<td>74</td>
<td>Outside/open fire for warming or cooking.</td>
</tr>
<tr>
<td>75</td>
<td>Agriculture or land management burns.</td>
</tr>
<tr>
<td>00</td>
<td>Factors contributing to ignition, other.</td>
</tr>
<tr>
<td>NN</td>
<td>None.</td>
</tr>
<tr>
<td>UU</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

### Human Factors Contributing to Ignition - Section E3

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Asleep.</td>
</tr>
<tr>
<td>2</td>
<td>Possibly impaired by alcohol or drugs.</td>
</tr>
<tr>
<td>3</td>
<td>Unattended or unsupervised person.</td>
</tr>
<tr>
<td>4</td>
<td>Possibly mentally disabled.</td>
</tr>
<tr>
<td>5</td>
<td>Physically disabled.</td>
</tr>
<tr>
<td>6</td>
<td>Multiple persons involved.</td>
</tr>
<tr>
<td>7</td>
<td>Age was a factor.</td>
</tr>
<tr>
<td>N</td>
<td>None.</td>
</tr>
</tbody>
</table>

### Age Factor Gender - Section E3

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Male.</td>
</tr>
<tr>
<td>2</td>
<td>Female.</td>
</tr>
</tbody>
</table>

### Equipment Involved In Ignition - Section F1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Heating, Ventilation, Air Conditioning</td>
</tr>
<tr>
<td>100</td>
<td>Heating, ventilation and air conditioning, other.</td>
</tr>
<tr>
<td>111</td>
<td>Air conditioner.</td>
</tr>
<tr>
<td>112</td>
<td>Heat pump.</td>
</tr>
<tr>
<td>113</td>
<td>Fan.</td>
</tr>
<tr>
<td>114</td>
<td>Humidifier.</td>
</tr>
<tr>
<td>115</td>
<td>Ionizer.</td>
</tr>
<tr>
<td>116</td>
<td>Dehumidifier.</td>
</tr>
<tr>
<td>117</td>
<td>Evaporative cooler, cooling tower.</td>
</tr>
<tr>
<td>120</td>
<td>Fireplace, chimney, other.</td>
</tr>
<tr>
<td>121</td>
<td>Fireplace, masonry.</td>
</tr>
<tr>
<td>122</td>
<td>Fireplace, factory-built.</td>
</tr>
<tr>
<td>123</td>
<td>Fireplace, insert/stove.</td>
</tr>
<tr>
<td>124</td>
<td>Stove, heating.</td>
</tr>
<tr>
<td>125</td>
<td>Chimney connector, vent connector.</td>
</tr>
<tr>
<td>126</td>
<td>Chimney: brick, stone, masonry.</td>
</tr>
<tr>
<td>127</td>
<td>Chimney: metal, including stovepipe, flue.</td>
</tr>
<tr>
<td>131</td>
<td>Furnace, local heating unit, built-in.</td>
</tr>
<tr>
<td>132</td>
<td>Furnace, central heating unit.</td>
</tr>
<tr>
<td>133</td>
<td>Boiler (power, process, heating).</td>
</tr>
<tr>
<td>141</td>
<td>Heater, excluding catalytic and oil-filled heaters.</td>
</tr>
<tr>
<td>142</td>
<td>Heater, catalytic.</td>
</tr>
<tr>
<td>143</td>
<td>Heater, oil filled.</td>
</tr>
<tr>
<td>144</td>
<td>Heat lamp.</td>
</tr>
<tr>
<td>145</td>
<td>Heat tape.</td>
</tr>
<tr>
<td>146</td>
<td>Water heater.</td>
</tr>
<tr>
<td>152</td>
<td>Steamline, heat pipe, hot air duct.</td>
</tr>
</tbody>
</table>

### Electrical Distribution, Lighting & Power Transfer

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Electrical distribution, power transfer, other.</td>
</tr>
<tr>
<td>210</td>
<td>Electrical wiring, other.</td>
</tr>
<tr>
<td>211</td>
<td>Electrical power (utility) line.</td>
</tr>
<tr>
<td>212</td>
<td>Electrical service supply wires from utility.</td>
</tr>
<tr>
<td>213</td>
<td>Electric meter, meter box.</td>
</tr>
<tr>
<td>214</td>
<td>Wiring from meter box to circuit breaker.</td>
</tr>
<tr>
<td>215</td>
<td>Panelboard, switchboard, circuit breaker board.</td>
</tr>
<tr>
<td>216</td>
<td>Electrical branch circuit.</td>
</tr>
<tr>
<td>217</td>
<td>Outlet, receptacle.</td>
</tr>
<tr>
<td>218</td>
<td>Wall switch.</td>
</tr>
<tr>
<td>219</td>
<td>Ground fault interrupter, GFI.</td>
</tr>
<tr>
<td>221</td>
<td>Transformer, distribution type.</td>
</tr>
<tr>
<td>222</td>
<td>Overcurrent, disconnect equipment.</td>
</tr>
<tr>
<td>223</td>
<td>Transformer, low voltage.</td>
</tr>
<tr>
<td>224</td>
<td>Generator.</td>
</tr>
<tr>
<td>225</td>
<td>Inverter.</td>
</tr>
<tr>
<td>226</td>
<td>Uninterrupted power supply (UPS).</td>
</tr>
<tr>
<td>227</td>
<td>Surge protector.</td>
</tr>
<tr>
<td>228</td>
<td>Battery charger, rectifier.</td>
</tr>
<tr>
<td>229</td>
<td>Battery.</td>
</tr>
<tr>
<td>230</td>
<td>Lamp, lighting, other.</td>
</tr>
<tr>
<td>231</td>
<td>Lamp: tabletop, floor, desk.</td>
</tr>
<tr>
<td>232</td>
<td>Lantern, flashlight.</td>
</tr>
</tbody>
</table>
**Data Dictionary - Fire Module**

### Equipment Involved In Ignition - Section F1 (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>233</td>
<td>Incandescent lighting fixture.</td>
</tr>
<tr>
<td>234</td>
<td>Fluorescent lighting fixture, ballast.</td>
</tr>
<tr>
<td>235</td>
<td>Halogen lighting fixture or lamp.</td>
</tr>
<tr>
<td>236</td>
<td>Sodium, mercury vapor lighting fixtures or lamps.</td>
</tr>
<tr>
<td>237</td>
<td>Work light, trouble light.</td>
</tr>
<tr>
<td>238</td>
<td>Light bulb.</td>
</tr>
<tr>
<td>241</td>
<td>Nightlight.</td>
</tr>
<tr>
<td>242</td>
<td>Decorative lights, line voltage.</td>
</tr>
<tr>
<td>243</td>
<td>Decorative or landscape lighting, low voltage.</td>
</tr>
<tr>
<td>244</td>
<td>Sign.</td>
</tr>
<tr>
<td>251</td>
<td>Fence, electric.</td>
</tr>
<tr>
<td>252</td>
<td>Traffic control device.</td>
</tr>
<tr>
<td>253</td>
<td>Lightning rod, arrester/grounding device.</td>
</tr>
<tr>
<td>260</td>
<td>Cord, plug, other.</td>
</tr>
<tr>
<td>261</td>
<td>Power cord, plug - detachable from appliance.</td>
</tr>
<tr>
<td>262</td>
<td>Power cord, plug - permanently attached.</td>
</tr>
<tr>
<td>263</td>
<td>Extension cord.</td>
</tr>
</tbody>
</table>

#### 3 Shop Tools & Industrial Equipment

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>Shop or industrial equipment, other.</td>
</tr>
<tr>
<td>310</td>
<td>Power tools, other.</td>
</tr>
<tr>
<td>311</td>
<td>Power saw.</td>
</tr>
<tr>
<td>312</td>
<td>Power lathe.</td>
</tr>
<tr>
<td>313</td>
<td>Power shaper, router, jointer, planer.</td>
</tr>
<tr>
<td>314</td>
<td>Power cutting tool.</td>
</tr>
<tr>
<td>315</td>
<td>Power drill, screwdriver.</td>
</tr>
<tr>
<td>316</td>
<td>Power sander, grinder, buffer, polisher.</td>
</tr>
<tr>
<td>317</td>
<td>Power hammer, including jackhammers.</td>
</tr>
<tr>
<td>318</td>
<td>Power nail gun, stud driver, stapler.</td>
</tr>
<tr>
<td>320</td>
<td>Painting tools, other.</td>
</tr>
<tr>
<td>321</td>
<td>Paint dipper.</td>
</tr>
<tr>
<td>322</td>
<td>Paint flow coating machine.</td>
</tr>
<tr>
<td>323</td>
<td>Paint mixing machine.</td>
</tr>
<tr>
<td>324</td>
<td>Paint sprayer.</td>
</tr>
<tr>
<td>325</td>
<td>Coating machine, including asphalt-saturating.</td>
</tr>
<tr>
<td>331</td>
<td>Welding torch.</td>
</tr>
<tr>
<td>332</td>
<td>Cutting torch.</td>
</tr>
<tr>
<td>333</td>
<td>Burners.</td>
</tr>
<tr>
<td>334</td>
<td>Soldering equipment.</td>
</tr>
<tr>
<td>340</td>
<td>Hydraulic equipment, other.</td>
</tr>
<tr>
<td>341</td>
<td>Air compressor.</td>
</tr>
<tr>
<td>342</td>
<td>Gas compressor.</td>
</tr>
<tr>
<td>343</td>
<td>Atomizing equipment.</td>
</tr>
<tr>
<td>344</td>
<td>Pump.</td>
</tr>
<tr>
<td>345</td>
<td>Wet/dry vacuum (shop vacuum).</td>
</tr>
<tr>
<td>346</td>
<td>Hoist, lift.</td>
</tr>
<tr>
<td>347</td>
<td>Powered jacking equipment.</td>
</tr>
<tr>
<td>348</td>
<td>Drilling machinery or equipment.</td>
</tr>
<tr>
<td>351</td>
<td>Heat-treating equipment.</td>
</tr>
<tr>
<td>352</td>
<td>Incinerator.</td>
</tr>
<tr>
<td>353</td>
<td>Industrial furnace, kiln.</td>
</tr>
<tr>
<td>354</td>
<td>Tarpot, tar kettle.</td>
</tr>
<tr>
<td>355</td>
<td>Casting, molding, forging equipment.</td>
</tr>
<tr>
<td>356</td>
<td>Distilling equipment.</td>
</tr>
<tr>
<td>357</td>
<td>Digestor, reactor.</td>
</tr>
<tr>
<td>358</td>
<td>Extractor, waste recovery machine.</td>
</tr>
<tr>
<td>361</td>
<td>Conveyor.</td>
</tr>
<tr>
<td>362</td>
<td>Power transfer equipment: ropes, cables, blocks.</td>
</tr>
<tr>
<td>363</td>
<td>Power takeoff.</td>
</tr>
<tr>
<td>364</td>
<td>Powered valves.</td>
</tr>
<tr>
<td>365</td>
<td>Bearing or brake.</td>
</tr>
<tr>
<td>371</td>
<td>Picking, carding, weaving machine.</td>
</tr>
<tr>
<td>372</td>
<td>Testing equipment.</td>
</tr>
<tr>
<td>373</td>
<td>Gas regulator.</td>
</tr>
<tr>
<td>374</td>
<td>Motor - separate.</td>
</tr>
<tr>
<td>375</td>
<td>Internal combustion engine (non-vehicular).</td>
</tr>
<tr>
<td>376</td>
<td>Printing press.</td>
</tr>
<tr>
<td>377</td>
<td>Car washing equipment.</td>
</tr>
</tbody>
</table>

#### 4 Commercial & Medical Equipment

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>Commercial or medical equipment, other.</td>
</tr>
<tr>
<td>410</td>
<td>Medical equipment, other.</td>
</tr>
<tr>
<td>411</td>
<td>Dental, medical, or other powered bed or chair.</td>
</tr>
<tr>
<td>412</td>
<td>Dental equipment, other.</td>
</tr>
<tr>
<td>413</td>
<td>Dialysis equipment.</td>
</tr>
<tr>
<td>414</td>
<td>Medical imaging equipment.</td>
</tr>
<tr>
<td>415</td>
<td>Medical monitoring equipment.</td>
</tr>
<tr>
<td>416</td>
<td>Oxygen administration equipment.</td>
</tr>
<tr>
<td>417</td>
<td>Radiological equipment, x-ray, radiation therapy.</td>
</tr>
<tr>
<td>418</td>
<td>Sterilizer: medical.</td>
</tr>
<tr>
<td>419</td>
<td>Therapeutic equipment.</td>
</tr>
<tr>
<td>421</td>
<td>Transmitter.</td>
</tr>
<tr>
<td>422</td>
<td>Telephone switching gear, including PBX.</td>
</tr>
<tr>
<td>423</td>
<td>TV monitor array.</td>
</tr>
<tr>
<td>424</td>
<td>Studio-type TV camera.</td>
</tr>
<tr>
<td>425</td>
<td>Studio-type sound recording/modulating equipment.</td>
</tr>
<tr>
<td>426</td>
<td>Radar equipment.</td>
</tr>
</tbody>
</table>
**Equipment Involved In Ignition - Section F1 (continued)**

431 Amusement ride equipment.
432 Ski lift.
433 Elevator or lift.
434 Escalator.
431 Microfilm, microfiche viewing equipment.
442 Photo processing equipment.
443 Vending machine.
444 Nonvideo arcade game.
445 Water fountain, water cooler.
446 Telescope.
450 Laboratory equipment, other.
451 Electron microscope.

**5 Garden Tools & Agricultural Equipment**

500 Gardening tools or agricultural equipment, other.
511 Combine, threshing machine.
512 Hay processing equipment.
513 Elevator or conveyor: farm.
514 Silo loader, unloader, screw/sweep auger.
515 Feed grinder, mixer, blender.
516 Milking machine.
517 Pasteurizer.
518 Cream separator.
521 Sprayer: farm or garden.
522 Chain saw.
523 Weed burner.
524 Lawn mower.
525 Lawn, landscape trimmer, edger.
531 Lawn vacuum.
532 Leaf blower.
533 Mulcher, grinder, chipper.
534 Snow blower, thrower.
535 Log splitter.
536 Post-hole auger.
537 Post driver, pile driver.
538 Tiller, cultivator.

**6 Kitchen & Cooking Equipment**

600 Kitchen & cooking equipment, other.
611 Blender, juicer, food processor, mixer.
612 Coffee grinder.
613 Can opener.
621 Knife.
623 Knife sharpener.
### Equipment Involved In Ignition - *Section F* (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Equipment Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>733</td>
<td>Musical synthesizer or keyboard.</td>
</tr>
<tr>
<td>740</td>
<td>Sound recording or receiving equipment, other.</td>
</tr>
<tr>
<td>741</td>
<td>CD player (audio).</td>
</tr>
<tr>
<td>742</td>
<td>Laser disk player.</td>
</tr>
<tr>
<td>743</td>
<td>Radio.</td>
</tr>
<tr>
<td>744</td>
<td>Radio, two way.</td>
</tr>
<tr>
<td>745</td>
<td>Record player, phonograph, turntable.</td>
</tr>
<tr>
<td>747</td>
<td>Speakers, audio - separate components.</td>
</tr>
<tr>
<td>748</td>
<td>Stereo equipment.</td>
</tr>
<tr>
<td>749</td>
<td>Tape recorder or player.</td>
</tr>
<tr>
<td>750</td>
<td>Video equipment, other.</td>
</tr>
<tr>
<td>751</td>
<td>Cable converter box.</td>
</tr>
<tr>
<td>752</td>
<td>Projector: film, slide, overhead.</td>
</tr>
<tr>
<td>753</td>
<td>Television.</td>
</tr>
<tr>
<td>754</td>
<td>VCR or VCR-TV combination.</td>
</tr>
<tr>
<td>755</td>
<td>Video game - electronic.</td>
</tr>
<tr>
<td>756</td>
<td>Camcorder, video camera.</td>
</tr>
<tr>
<td>757</td>
<td>Photographic camera and equipment.</td>
</tr>
<tr>
<td>800</td>
<td>Personal or household equipment, other.</td>
</tr>
<tr>
<td>811</td>
<td>Clothes dryer.</td>
</tr>
<tr>
<td>812</td>
<td>Trash compactor.</td>
</tr>
<tr>
<td>813</td>
<td>Washer/dryer combination (within one frame).</td>
</tr>
<tr>
<td>814</td>
<td>Washing machine - clothes.</td>
</tr>
<tr>
<td>821</td>
<td>Hot tub, whirlpool, spa.</td>
</tr>
<tr>
<td>822</td>
<td>Swimming pool equipment.</td>
</tr>
<tr>
<td>830</td>
<td>Floor care equipment, other.</td>
</tr>
<tr>
<td>831</td>
<td>Broom - electric.</td>
</tr>
<tr>
<td>832</td>
<td>Carpet cleaning equipment, including rug shampooer.</td>
</tr>
<tr>
<td>833</td>
<td>Floor buffer, waxer, cleaner.</td>
</tr>
<tr>
<td>834</td>
<td>Vacuum cleaner.</td>
</tr>
<tr>
<td>841</td>
<td>Comb, hair brush.</td>
</tr>
<tr>
<td>842</td>
<td>Curling iron.</td>
</tr>
<tr>
<td>843</td>
<td>Electrolysis equipment.</td>
</tr>
<tr>
<td>844</td>
<td>Hair curler warmer.</td>
</tr>
<tr>
<td>845</td>
<td>Hair dryer.</td>
</tr>
<tr>
<td>846</td>
<td>Makeup mirror, lighted.</td>
</tr>
<tr>
<td>847</td>
<td>Razor, shaver.</td>
</tr>
<tr>
<td>848</td>
<td>Sun tan equipment, sunlamp.</td>
</tr>
<tr>
<td>849</td>
<td>Toothbrush.</td>
</tr>
<tr>
<td>850</td>
<td>Portable appliance designed to produce heat, other.</td>
</tr>
<tr>
<td>851</td>
<td>Baby bottle warmer.</td>
</tr>
<tr>
<td>852</td>
<td>Blanket - electric.</td>
</tr>
<tr>
<td>853</td>
<td>Heating pad.</td>
</tr>
<tr>
<td>854</td>
<td>Clothes steamer.</td>
</tr>
<tr>
<td>855</td>
<td>Clothes iron.</td>
</tr>
<tr>
<td>856</td>
<td>Automatic door opener - not garage.</td>
</tr>
<tr>
<td>857</td>
<td>Burglar alarm.</td>
</tr>
<tr>
<td>858</td>
<td>Garage door opener.</td>
</tr>
<tr>
<td>859</td>
<td>Gas detector.</td>
</tr>
<tr>
<td>860</td>
<td>Smoke or heat detector, fire alarm.</td>
</tr>
<tr>
<td>861</td>
<td>Thermostat.</td>
</tr>
<tr>
<td>862</td>
<td>Intercom.</td>
</tr>
<tr>
<td>863</td>
<td>Woodburning kit.</td>
</tr>
<tr>
<td>864</td>
<td>VCR or VCR-TV combination.</td>
</tr>
<tr>
<td>865</td>
<td>Ashtray.</td>
</tr>
<tr>
<td>866</td>
<td>Charcoal lighter.</td>
</tr>
<tr>
<td>867</td>
<td>Cigarette lighter, pipe lighter.</td>
</tr>
<tr>
<td>868</td>
<td>Fire-extinguishing equipment.</td>
</tr>
<tr>
<td>869</td>
<td>Insect trap.</td>
</tr>
<tr>
<td>870</td>
<td>Toy, powered.</td>
</tr>
<tr>
<td>871</td>
<td>Clock.</td>
</tr>
<tr>
<td>872</td>
<td>Gun.</td>
</tr>
<tr>
<td>873</td>
<td>Jewelry cleaning machine.</td>
</tr>
<tr>
<td>874</td>
<td>Scissors.</td>
</tr>
<tr>
<td>875</td>
<td>Sewing machine.</td>
</tr>
<tr>
<td>876</td>
<td>Shoe polishner.</td>
</tr>
<tr>
<td>877</td>
<td>Sterilizer.</td>
</tr>
<tr>
<td>878</td>
<td>Other equipment involved in ignition.</td>
</tr>
<tr>
<td>879</td>
<td>None.</td>
</tr>
<tr>
<td>880</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

### Equipment Power Source - *Section F*

1. **Electrical**
   - 11 Electrical line voltage (>50 volts).
   - 12 Batteries and low voltage (< 50 volts).
   - 10 Electrical, other.

2. **Gas Fuels**
   - 21 Natural gas or other lighter-than-air gas.
   - 22 LP gas or other heavier-than-air gas.
   - 20 Gas fuels, other.

3. **Liquid Fuels**
   - 11 Gasoline.
   - 12 Alcohol.
Equipment Power Source - Section F2 (continued)

33 Kerosene, diesel fuel, No.1 and 2 fuel oil.
34 No.4, 5 & 6 fuel oils.
30 Liquid fuel, other.

4 Solid Fuels
41 Wood, paper.
42 Coal, charcoal.
43 Chemicals.
40 Solid fuel, other.

5 Other Power Sources
51 Compressed air.
52 Steam.
53 Water.
54 Wind.
55 Solar.
56 Geothermal.
57 Nuclear.
58 Fluid/hydraulic power source.
00 Other power source.
UU Undetermined.

Equipment Portability - Section F3

1 Portable.
2 Stationary.

Fire Suppression Factors - Section G

1 Building Construction or Design Factors
100 Building construction or design factors, other.
112 Roof collapse.
113 Roof assembly combustible.
121 Ceiling collapse.
125 Holes or openings in walls or ceilings.
131 Wall collapse.
132 Difficult to ventilate.
134 Combustible interior finish.
137 Balloon construction.
138 Internal arrangement of partitions.
139 Internal arrangement of stock or contents.
141 Floor collapse.
151 Lack of fire barrier walls or doors.
153 Transoms.
161 Attic undivided.
166 Insulation combustible.

173 Stairwell not enclosed.
174 Elevator shaft.
175 Dumbwaiter.
176 Ducts: vertical.
177 Chute: rubbish, garbage, laundry.
181 Supports unprotected.
182 Composite plywood I beam construction.
183 Composite roof/floor sheathing construction.
185 Wood truss construction.
186 Metal truss construction.
187 Fixed burglar protection assemblies (bars, grills).
188 Quick release failure of bars on windows or doors.
192 Previously damaged by fire.

2 Act or Omission
200 Act or omission, other.
213 Doors left open or outside door unsecured.
214 Fire doors blocked or did not close properly.
218 Violation of fire, building or life safety code.
222 Illegal and clandestine drug operation.
232 Intoxication, drugs or alcohol.
253 Riot or civil disturbance, including hostile acts.
254 Persons interfered with operations.
283 Accelerant used.

3 On-site materials
300 On-site materials, other.
311 Aisles blocked or improper width.
312 Significant/unusual fuel load structure components.
313 Significant/unusual fuel load from contents.
314 Significant/unusual fuel load outside from natural.
315 Significant fuel load from man-made condition.
316 Storage, improper.
321 Radiological hazard onsite.
322 Biological hazard onsite.
323 Cryogenic hazard onsite.
324 Hazardous chemical, corrosive material, or oxidize.
325 Flammable/combustible liquid hazard.
327 Explosives hazard present.
331 Decorations, included are crepe paper, garland.
341 Natural or other lighter-than-air gas present.
342 Liquefied Petroleum (LPG) gas present.
361 Combustible storage > 12 feet.
362 High rack storage.
Fire Suppression Factors - Section G (continued)

4 Delays

400 Delays, other.
411 Delayed detection of fire.
412 Delayed reporting of fire.
413 Alarm system malfunction.
414 Alarm system shut off for valid reason.
415 Alarm System inappropriately shut off.
421 Unable to contact Fire Department.
424 Information incomplete or incorrect.
425 Communications problem.
431 Blocked or obstructed roadway.
434 Poor or no access for fire department apparatus.
435 Traffic delay.
436 Trouble finding location.
437 Size, height, or other building characteristic.
438 Power lines down/arcing.
443 Poor access for firefighters.
444 Secured area.
445 Guard dogs.
446 Aggressive animals, excluding guard dogs.
447 Suppression delayed due to evaluation of HazMat.
448 Locked or jammed doors.
451 Apparatus failure before arrival at incident.
452 Hydrants inoperative.
461 Airspace restriction.
462 Military activity.
481 Closest apparatus unavailable.

5 Protective Equipment

500 Protective equipment factor, other.
510 Automatic fire suppression system problem.
520 Automatic sprinkler, standpipe connection problem.
531 Water supply inadequate: private.
532 Water supply inadequate: public.
543 Electrical power outage.
561 Failure of rated fire protection assembly.
562 Protective equipment negated.

6 Egress/Exit

600 Egress/exit problem, other.
611 Occupancy load above legal limit.
612 Evacuation activity impeded FD access.
613 Window type impeded egress.
614 Windowless wall.

621 Young occupants.
622 Elderly occupants.
623 Physically disabled occupants.
624 Mentally disabled occupants.
625 Physically restrained/confined occupants.
626 Medically disabled occupants.
641 Special Event.
642 Public Gathering.

7 Natural Conditions

700 Natural conditions, other.
711 Drought or low fuel moisture.
712 Humidity, low.
713 Humidity, high.
714 Temperature, low.
715 Temperature, high.
721 Fog.
722 Flooding.
723 Ice.
724 Rain.
725 Snow.
732 Wind, including hurricanes or tornadoes.
741 Earthquake.
760 Unusual vegetation fuel loading.
771 Threatened or endangered species.
772 Timber sale activity.
773 Fire restriction.
774 Historic disturbance.
775 Urban-Wildland Interface Area.
000 Fire suppression factor, other.
NNN None.
UUU Undetermined (conversion only).

Mobile Property Involved - Section H1

1 Not involved in ignition, but burned.
2 Involved in ignition, but did not itself burn.
3 Involved in ignition and burned.
N None.

Mobile Property Type - Section H2

1 Passenger Road Vehicles
11 Automobile, passenger car, ambulance, race car.
12 Bus, school bus, trackless trolley.
13 Off-road recreational vehicle.
Mobile Property Type - Section H2 (continued)

14 Motor home, camper, bookmobile.
15 Trailer - travel, designed to be towed.
16 Trailer - camping, collapsible.
17 Mobile home.
18 Motorcycle, trail bike.
10 Passenger road vehicle, other.

2 Freight Road Vehicles

21 General use truck, dump truck, fire apparatus.
22 Hauling rig (non-motorized), pickup truck.
23 Trailer - semi, designed for freight.
24 Tank truck - nonflammable cargo.
25 Tank truck - flammable or combustible liquid.
26 Tank truck - compressed gas or LP-gas.
27 Garbage, waste, refuse truck.
20 Freight road transport vehicle, other.

3 Rail Transport Vehicles

31 Diner car, passenger car - rail.
32 Box, freight, or hopper car - rail.
33 Tank car - rail.
34 Container or piggyback car - rail.
35 Engine/locomotive - rail.
36 Rapid transit car, trolley - self-powered.
37 Maintenance equipment car.
30 Rail transport vehicle, other.

4 Water Vessels

41 Boat: shorter than 65 ft. with power.
42 Boat, ship, or >= 65 ft but < 1,000 tons.
43 Cruise liner or passenger ship >= 1,000 tons.
44 Tank ship.
45 Personal water craft.
46 Cargo or military ship > 1,000 tons.
47 Non-self-propelled vessel.
48 Commercial fishing or processing vessel.
49 Sailboat.
40 Water transport vessel, other.

5 Air transport vehicles

51 Personal aircraft less than 12,500 lb. gross wt.
52 Personal aircraft >= 12,500 lb. gross wt.
53 Commercial aircraft: propeller, fixed wing.
54 Commercial aircraft: turbine powered, fixed-wing.
55 Helicopters, nonmilitary.
56 Military fixed-wing aircraft.

57 Military non-fixed-wing aircraft.
58 Balloon vehicles.
50 Air transport vehicle, other.

6 Industrial, Agricultural, Construction Vehiclenes

61 Construction vehicle.
63 Loader - industrial, fork lift, tow motor, stacker.
64 Crane.
65 Agricultural vehicle, baler, chopper (farm use).
67 Timber harvest vehicle.
60 Industrial, constr., agricultural vehicle, other.

7 Mobile Property, Miscellaneous

71 Home, garden vehicle.
73 Shipping container, mechanically moved.
74 Armored vehicle.
75 Missile, rocket, space vehicle.
76 Aerial tramway vehicle.
00 Mobile property, other.
NN None.
UU Undetermined (conversion only).

Mobile Property Make - Section H2

AC Acura
AM Aston Martin
AR Alfa Romeo
AT ATK
AU Audi
AV Antique Vehicle
BE Beta
BL Buell
BM BMW
BU Buick
CC Crane Carrier (CCC)
CD Cadillac
CH Chevrolet
CP Caterpillar
CR Chrysler
CV Classic Vehicle
DA Daihatsu
DO Dodge
DR Diamond Reo
DU Ducati
EA Eagle
FE Ferrari
Mobile Property Make - Section H2 (continued)

<table>
<thead>
<tr>
<th>Mobile Property Make</th>
<th>Reports Attached</th>
</tr>
</thead>
<tbody>
<tr>
<td>FO Ford</td>
<td>NI Nissan</td>
</tr>
<tr>
<td>FR Freightliner</td>
<td>OL Oldsmobile</td>
</tr>
<tr>
<td>FW FWD</td>
<td>OS Oshkosh</td>
</tr>
<tr>
<td>GE Geo</td>
<td>PI Pierce</td>
</tr>
<tr>
<td>GM GMC (General Motors)</td>
<td>PL Plymouth</td>
</tr>
<tr>
<td>HD Harley Davidson</td>
<td>PN Pontiac</td>
</tr>
<tr>
<td>HI Hino</td>
<td>PR Porsche</td>
</tr>
<tr>
<td>HO Honda</td>
<td>PT Peterbilt</td>
</tr>
<tr>
<td>HU Husqyerna</td>
<td>PU Peugeot</td>
</tr>
<tr>
<td>HY Hyundai</td>
<td>RG Rogue (Ottowa)</td>
</tr>
<tr>
<td>IF Infiniti</td>
<td>RN Range Rover</td>
</tr>
<tr>
<td>IN International</td>
<td>RR Rolls Royce</td>
</tr>
<tr>
<td>IS Isuzu</td>
<td>SA Saturn</td>
</tr>
<tr>
<td>IT Italjet</td>
<td>SB Saab</td>
</tr>
<tr>
<td>IV Ivec</td>
<td>SC Scania</td>
</tr>
<tr>
<td>JA Jaguar</td>
<td>SD Simon Duplex</td>
</tr>
<tr>
<td>JE Jeep</td>
<td>ST Sterling</td>
</tr>
<tr>
<td>KA Kawasaki</td>
<td>SU Subaru</td>
</tr>
<tr>
<td>KE Kenworth</td>
<td>SZ Suzuki</td>
</tr>
<tr>
<td>KI Kia</td>
<td>TO Toyota</td>
</tr>
<tr>
<td>KT KTM</td>
<td>TR Triumph</td>
</tr>
<tr>
<td>LE Lexus</td>
<td>UD UD</td>
</tr>
<tr>
<td>LI Lincoln</td>
<td>UT Utilmaster</td>
</tr>
<tr>
<td>LO Lotus</td>
<td>VE Vespa</td>
</tr>
<tr>
<td>LR Land Rover</td>
<td>VG Volvo GMC</td>
</tr>
<tr>
<td>MA Maico</td>
<td>VL Volvo</td>
</tr>
<tr>
<td>MB Mercedes Benz</td>
<td>VO Volkswagen</td>
</tr>
<tr>
<td>MC Mercury</td>
<td>WG White GMC</td>
</tr>
<tr>
<td>MG Moto Guzzi</td>
<td>WK Walker</td>
</tr>
<tr>
<td>MH Marmon</td>
<td>WL Walter</td>
</tr>
<tr>
<td>MK Mack</td>
<td>WS Western Star</td>
</tr>
<tr>
<td>ML Maely</td>
<td>YA Yamaha</td>
</tr>
<tr>
<td>MM Moto Morini</td>
<td>YU Yugo</td>
</tr>
<tr>
<td>MO Montesa</td>
<td>OO Other Make</td>
</tr>
<tr>
<td>MR Merkur</td>
<td></td>
</tr>
<tr>
<td>MS Maserati</td>
<td></td>
</tr>
<tr>
<td>MT Mitsubishi</td>
<td></td>
</tr>
<tr>
<td>MZ Mazda</td>
<td></td>
</tr>
<tr>
<td>NA Navistar</td>
<td></td>
</tr>
</tbody>
</table>

Reports Attached

1 Arson Report Attached.
2 Police Report Attached.
3 Coroner Report Attached.
4 Other Reports Attached.
Structure Fire Module Data Dictionary

**Structure Type - Section I:**
1. Enclosed building.
2. Fixed portable or mobile structure.
3. Open structure.
4. Air supported structure.
5. Tent.
6. Open platform.
7. Underground structure work areas.
8. Connective structure.
9. Other.

**Building Status - Section I:**
1. Under construction.
2. Occupied and operating.
3. Idle, not routinely used.
4. Under major renovation.
5. Vacant and secured.
6. Vacant and unsecured.
8. Other.

**Fire Spread - Section J:**
1. Confined to object of origin.
2. Confined to room of origin.
3. Confined to floor of origin.
4. Confined to building of origin.
5. Beyond building of origin.

**Item Contributing Most to Flame Spread - Section K:**
Please Note:
The code set table used for this data element is the same set that is used for **Item First Ignited**, section D1 in the Fire Module, with the exception of “99, Multiple Items First Ignited” which is excluded from this code-set. Please refer to page 174 for the codes listed for that data element.

**Type Material Contributing to Flame Spread - Section K:**
Please Note:
The code set table used for this data element is the same set that is used for **Type of Material First Ignited**, section D4 in the Fire Module, with the exception of “99 Multiple Type of Material”, which is excluded from this code-set. Please refer to page 175 for the codes listed for that data element.

**Presence of Detectors - Section L:**

**L1 Presence of Detectors**
1. Present.
2. Not present.
3. Undetermined.

**L2 Detector Type**
1. Smoke.
3. Combination smoke & heat in a single unit.
4. Sprinkler, water flow detection.
5. More than one type present.
6. Other.
7. Undetermined.

**L3 Detector Power Supply**
1. Battery only.
2. Hardwire only.
3. Plug in.
4. Hardwire with battery.
5. Plug-in with battery.
6. Mechanical.
7. Multiple detectors & power supplies.
8. Other.

**L4 Detector Operation**
1. Fire too small to activate detector.
2. Detector operated.
3. Detector failed to operate.
4. Failed to alert occupants.
5. Undetermined.

**L5 Detector Effectiveness**
1. Detector alerted occupants, occupants responded.
2. Alerted occupants, occupants failed to respond.
3. There were no occupants.
4. Failed to alert occupants.
5. Undetermined.
Detectors - Section L (continued)

L6 Detector Failure Reason
1 Power failure, hardwired det. shut off, disconnect.
2 Improper installation or placement.
3 Defective.
4 Lack of maintenance, includes not cleaning.
5 Battery missing or disconnected.
6 Battery discharged or dead.
0 Detector failure reason, other.
U Undetermined.

Presence of Automatic Extinguishing System - Section M

M1 Automatic Extinguishing System Presence
1 Present.
N None Present.
U Undetermined.

M2 Type of Automatic Extinguishing System
1 Wet-pipe sprinkler.
2 Dry-pipe sprinkler.
3 Other sprinkler system.
4 Dry chemical system.
5 Foam system.
6 Halogen type system.
7 Carbon dioxide system.
0 Special hazard system, other.
U Undetermined.

M3 Operation of Automatic Extinguishing System
1 System operated and was effective.
2 System operated and was not effective.
3 Fire too small to activate system.
4 System did not operate.
0 Operation of AES, other.
U Undetermined.

M5 Reason for Automatic Extinguishing System Failure
1 System shut off.
2 Not enough agent discharged to control the fire.
3 Agent discharged, but did not reach the fire.
4 Inappropriate system for the type of fire.
5 Fire not in area protected by the system.
6 System components damaged.
7 Lack of maintenance, including corrosion or heads painted.
8 Manual intervention defeated the system.
0 Reason system not effective, other.
U Undetermined.
Civilian Fire Casualty Module Dictionary

Gender - Section B
1 Male.
2 Female.

Race - Section E
1 White.
2 Black or African American.
3 American Indian or Alaska native.
4 Asian.
5 Native Hawaiian or other Pacific Islander.
0 Other, includes multi-racial.
U Undetermined.

Ethnicity - Section E
1 Hispanic or Latino.
0 Non Hispanic or Latino.

Affiliation - Section F
1 Civilian.
2 EMS, not fire department.
3 Police.
0 Other.
U Undetermined (conversion only).

Severity - Section H
1 Minor.
2 Moderate.
3 Severe.
4 Life threatening.
5 Death.
U Undetermined.

Cause of Injury - Section I
1 Exposed to fire products.
2 Exposed to hazardous materials or toxic fumes.
3 Jumped in escape attempt.
4 Fell, slipped or tripped.
5 Caught or trapped.
6 Structural collapse.
7 Struck by or contact with object.
8 Overexertion or strain.
9 Multiple causes.
0 Other.
U Undetermined.
N None (conversion only).

Human Factors Contributing to Injury - Section J
1 Asleep.
2 Unconscious.
3 Possibly impaired by alcohol.
4 Possibly impaired by other drug or chemical.
5 Possibly mentally disabled.
6 Physically disabled.
7 Physically restrained.
8 Unattended or unsupervised person.
N None.

Factors Contributing to Injury - Section K
1 Egress Problem
11 Crowd situation, limited exits.
12 Mechanical obstacles to exit.
13 Locked exit or other problem with exit.
14 Problem with quick release burglar or security bar.
15 Burglar or security bar, intrusion barrier.
16 Window type or size impeded egress.
10 Egress problem, other.
2 Fire Pattern
21 Exits blocked by flame.
22 Exits blocked by smoke.
23 Vision blocked or impaired by smoke.
24 Trapped above fire.
25 Trapped below fire.
20 Fire pattern, other.
3 Escape
31 Unfamiliar with exits.
32 Excessive travel distance to nearest clear exit.
33 Chose inappropriate exit route.
34 Re-entered building.
35 Clothing caught fire while escaping.
30 Escape, other.
4 Collapse
41 Roof collapse.
42 Wall collapse.
43 Floor collapse.
### Factors Contributing to Injury - Section K (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>Collapse, other.</td>
</tr>
<tr>
<td>5</td>
<td><strong>Vehicle-Related Factors</strong></td>
</tr>
<tr>
<td>51</td>
<td>Trapped in/by vehicle.</td>
</tr>
<tr>
<td>52</td>
<td>Vehicle collision, rollover.</td>
</tr>
<tr>
<td>50</td>
<td>Vehicle-related, other.</td>
</tr>
<tr>
<td>6</td>
<td><strong>Equipment-Related Factors</strong></td>
</tr>
<tr>
<td>61</td>
<td>Unvented heating equipment.</td>
</tr>
<tr>
<td>62</td>
<td>Improper use of heating equipment.</td>
</tr>
<tr>
<td>63</td>
<td>Improper use of cooking equipment.</td>
</tr>
<tr>
<td>60</td>
<td>Equipment-related factors, other.</td>
</tr>
<tr>
<td>9</td>
<td><strong>Other Special Factors</strong></td>
</tr>
<tr>
<td>91</td>
<td>Clothing burned, not while escaping.</td>
</tr>
<tr>
<td>92</td>
<td>Overexertion.</td>
</tr>
<tr>
<td>00</td>
<td>Factor contributing to injury, other.</td>
</tr>
<tr>
<td>NN</td>
<td>None.</td>
</tr>
<tr>
<td>UU</td>
<td>Undetermined (conversion only).</td>
</tr>
</tbody>
</table>

### Activity When Injured - Section L

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Escaping.</td>
</tr>
<tr>
<td>2</td>
<td>Rescue attempt.</td>
</tr>
<tr>
<td>3</td>
<td>Fire control.</td>
</tr>
<tr>
<td>4</td>
<td>Returning to vicinity of fire before control.</td>
</tr>
<tr>
<td>5</td>
<td>Returning to vicinity of fire after control.</td>
</tr>
<tr>
<td>6</td>
<td>Sleeping.</td>
</tr>
<tr>
<td>7</td>
<td>Unable to act.</td>
</tr>
<tr>
<td>8</td>
<td>Irrational act.</td>
</tr>
<tr>
<td>0</td>
<td>Other activity.</td>
</tr>
<tr>
<td>U</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

### Location at Time of Incident - Section M

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>In area of origin and not involved.</td>
</tr>
<tr>
<td>2</td>
<td>Not in area of origin &amp; not involved.</td>
</tr>
<tr>
<td>3</td>
<td>Not in area of origin, but involved.</td>
</tr>
<tr>
<td>4</td>
<td>In area of origin and involved.</td>
</tr>
<tr>
<td>0</td>
<td>Other location.</td>
</tr>
<tr>
<td>U</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

### General Location at Time of Injury - Section M

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>In area of origin.</td>
</tr>
<tr>
<td>2</td>
<td>In building, but not in area of origin.</td>
</tr>
<tr>
<td>3</td>
<td>Outside, not in area of origin.</td>
</tr>
<tr>
<td>U</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

### Specific Location at Time of Injury - Section M

**Please Note:**
The code set table used for this data element is the same set that is used for *Area of Fire Origin*, section D1 in the Fire Module. Please refer to page 172 for the codes listed for that data element.

### Primary Apparent Symptom - Section N

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Smoke inhalation.</td>
</tr>
<tr>
<td>02</td>
<td>Hazardous fumes inhalation.</td>
</tr>
<tr>
<td>03</td>
<td>Breathing difficulty or shortness of breath.</td>
</tr>
<tr>
<td>11</td>
<td>Burns and smoke inhalation.</td>
</tr>
<tr>
<td>12</td>
<td>Burns only, thermal.</td>
</tr>
<tr>
<td>13</td>
<td>Burn, scald.</td>
</tr>
<tr>
<td>14</td>
<td>Burn, chemical.</td>
</tr>
<tr>
<td>15</td>
<td>Burn, electric.</td>
</tr>
<tr>
<td>21</td>
<td>Cut or laceration.</td>
</tr>
<tr>
<td>22</td>
<td>Stab wound/puncture wound: penetrating.</td>
</tr>
<tr>
<td>23</td>
<td>Gunshot wound; projectile wound.</td>
</tr>
<tr>
<td>24</td>
<td>Contusion/bruise, minor trauma.</td>
</tr>
<tr>
<td>25</td>
<td>Abrasion.</td>
</tr>
<tr>
<td>31</td>
<td>Dislocation.</td>
</tr>
<tr>
<td>32</td>
<td>Fracture.</td>
</tr>
<tr>
<td>33</td>
<td>Strain or sprain.</td>
</tr>
<tr>
<td>34</td>
<td>Swelling.</td>
</tr>
<tr>
<td>35</td>
<td>Crushing.</td>
</tr>
<tr>
<td>36</td>
<td>Amputation.</td>
</tr>
<tr>
<td>41</td>
<td>Cardiac symptoms.</td>
</tr>
<tr>
<td>42</td>
<td>Cardiac arrest.</td>
</tr>
<tr>
<td>43</td>
<td>Stroke.</td>
</tr>
<tr>
<td>44</td>
<td>Respiratory arrest.</td>
</tr>
<tr>
<td>51</td>
<td>Chills.</td>
</tr>
<tr>
<td>52</td>
<td>Fever.</td>
</tr>
<tr>
<td>53</td>
<td>Nausea.</td>
</tr>
<tr>
<td>54</td>
<td>Vomiting.</td>
</tr>
<tr>
<td>55</td>
<td>Numbness or tingling, paresthesia.</td>
</tr>
<tr>
<td>56</td>
<td>Paralysis.</td>
</tr>
<tr>
<td>57</td>
<td>Frostbite.</td>
</tr>
<tr>
<td>50</td>
<td>Sickness, other.</td>
</tr>
<tr>
<td>61</td>
<td>Miscarriage.</td>
</tr>
<tr>
<td>63</td>
<td>Eye trauma, avulsion.</td>
</tr>
<tr>
<td>64</td>
<td>Drowning.</td>
</tr>
<tr>
<td>65</td>
<td>Foreign body obstruction.</td>
</tr>
<tr>
<td>66</td>
<td>Electric shock.</td>
</tr>
</tbody>
</table>
Primary Apparent Symptom - Section N (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Symptom</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>Poison</td>
</tr>
<tr>
<td>71</td>
<td>Convulsion or seizure.</td>
</tr>
<tr>
<td>72</td>
<td>Internal trauma.</td>
</tr>
<tr>
<td>73</td>
<td>Hemorrhaging, bleeding internally.</td>
</tr>
<tr>
<td>81</td>
<td>Disorientation.</td>
</tr>
<tr>
<td>82</td>
<td>Dizziness/fainting/weakness.</td>
</tr>
<tr>
<td>83</td>
<td>Exhaustion/fatigue, including heat exhaustion.</td>
</tr>
<tr>
<td>84</td>
<td>Heat stroke.</td>
</tr>
<tr>
<td>85</td>
<td>Dehydration.</td>
</tr>
<tr>
<td>91</td>
<td>Allergic reaction, including anaphylactic shock.</td>
</tr>
<tr>
<td>92</td>
<td>Drug overdose.</td>
</tr>
<tr>
<td>93</td>
<td>Alcohol impairment.</td>
</tr>
<tr>
<td>94</td>
<td>Emotional/psychological stress.</td>
</tr>
<tr>
<td>95</td>
<td>Mental disorder.</td>
</tr>
<tr>
<td>96</td>
<td>Shock.</td>
</tr>
<tr>
<td>97</td>
<td>Unconscious.</td>
</tr>
<tr>
<td>98</td>
<td>Pain only.</td>
</tr>
<tr>
<td>00</td>
<td>Primary apparent symptom, other.</td>
</tr>
<tr>
<td>NN</td>
<td>None.</td>
</tr>
<tr>
<td>UU</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

Primary Area of Body Injured - Section O

<table>
<thead>
<tr>
<th>Code</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Head</td>
</tr>
<tr>
<td>2</td>
<td>Neck or shoulder.</td>
</tr>
<tr>
<td>3</td>
<td>Thorax, includes chest and back, excludes spine.</td>
</tr>
<tr>
<td>4</td>
<td>Abdomen</td>
</tr>
<tr>
<td>5</td>
<td>Spine</td>
</tr>
<tr>
<td>6</td>
<td>Upper extremities.</td>
</tr>
<tr>
<td>7</td>
<td>Lower extremities.</td>
</tr>
<tr>
<td>8</td>
<td>Internal</td>
</tr>
<tr>
<td>9</td>
<td>Multiple body parts.</td>
</tr>
<tr>
<td>0</td>
<td>Other area (conversion only).</td>
</tr>
<tr>
<td>U</td>
<td>Undetermined (conversion only).</td>
</tr>
</tbody>
</table>

Disposition - Section P

<table>
<thead>
<tr>
<th>Code</th>
<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Transported to emergency care facility.</td>
</tr>
</tbody>
</table>
**Fire Service Casualty Module Data Dictionary**

### Gender - Section B

1. Male.
2. Female.

### Affiliation - Section B

1. Career.
2. Volunteer.

### Usual Assignment - Section G1

1. Fire suppression, included are HazMat, rescue, IC.
2. EMS.
3. Prevention or inspection.
4. Training.
5. Maintenance.
6. Communications.
7. Administration.
8. Fire investigation.
0. Other assignment.
U Undetermined (Conversion only).

### Physical Condition Just Prior To Injury - Section G2

1. Rested.
2. Fatigued.
4. Ill or injured.
0. Physical condition, other.
U Undetermined.

### Severity - Section G3

1. Report only, including exposure.
2. First aid only.
3. Treated by physician, not a lost-time injury.
5. Severe, lost-time injury.
7. Death.
U Undetermined (Conversion only).

### Activity At Time of Injury - Section G5

1. Driving or Riding Vehicle

11. Boarding fire department vehicle.
12. Driving fire department vehicle.
13. Tiller fire department vehicle.
14. Riding fire department vehicle.
15. Getting off fire department vehicle.
16. Driving/riding non-fire department vehicle.
17. Boarding/exiting non-fire department vehicle.
10. Driving or riding vehicle, other.

2. Operating Fire Department Apparatus

21. Operating engine or pumper.
22. Operating aerial ladder or elevating platform.
23. Operating EMS vehicle.
24. Operating HazMat vehicle.
25. Operating rescue vehicle.
20. Operating fire department apparatus, other.

3. Extinguishing Fire or Neutralizing Incident

31. Handling charged hose lines.
32. Using hand extinguishers.
33. Operating master steam device.
34. Using hand tools in extinguishment activity.
35. Removing power lines.
36. Removing flammable liquids/chemicals.
37. Shutting off utilities, gas lines, etc.
30. Extinguishing fire/neutralizing incident, other.

4. Suppression Support

41. Forcible entry.
42. Ventilation with power tools.
43. Ventilation with hand tools.
44. Salvage.
45. Overhaul.
40. Suppression support, other.

5. Access or Egress

51. Carrying ground ladder.
52. Raising ground ladder.
53. Lowering ground ladder.

6. Residence.
7. Station or quarters.
0. Taken to, other.
N Not transported.
U Undetermined (Conversion only).

### Taken To - Section G4

1. Hospital.
4. Doctor’s office.
5. Morgue or funeral home.
**Activity At Time of Injury - Section G** (continued)

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>54</td>
<td>Climbing ladder.</td>
</tr>
<tr>
<td>55</td>
<td>Scaling.</td>
</tr>
<tr>
<td>56</td>
<td>Escaping fire/hazard.</td>
</tr>
<tr>
<td>57</td>
<td>Moving/lifting patient with carrying device.</td>
</tr>
<tr>
<td>58</td>
<td>Lifting/carrying patient without carrying device.</td>
</tr>
<tr>
<td>50</td>
<td>Access/egress, other.</td>
</tr>
<tr>
<td>5</td>
<td><strong>EMS / Rescue</strong></td>
</tr>
<tr>
<td>61</td>
<td>Searching for victim.</td>
</tr>
<tr>
<td>62</td>
<td>Rescuing fire victim.</td>
</tr>
<tr>
<td>63</td>
<td>Rescuing non-fire victim.</td>
</tr>
<tr>
<td>64</td>
<td>Water rescue.</td>
</tr>
<tr>
<td>65</td>
<td>Providing EMS care.</td>
</tr>
<tr>
<td>66</td>
<td>Diving operations.</td>
</tr>
<tr>
<td>67</td>
<td>Extraction with power tools.</td>
</tr>
<tr>
<td>68</td>
<td>Extraction with hand tools.</td>
</tr>
<tr>
<td>60</td>
<td>EMS/rescue, other.</td>
</tr>
<tr>
<td>7</td>
<td><strong>Other Incident Scene Activity</strong></td>
</tr>
<tr>
<td>71</td>
<td>Directing traffic.</td>
</tr>
<tr>
<td>72</td>
<td>Catching hydrant.</td>
</tr>
<tr>
<td>73</td>
<td>Laying hose.</td>
</tr>
<tr>
<td>74</td>
<td>Moving tools or equipment around scene.</td>
</tr>
<tr>
<td>75</td>
<td>Picking up tools, equipment, or hose on scene.</td>
</tr>
<tr>
<td>76</td>
<td>Setting up lighting.</td>
</tr>
<tr>
<td>77</td>
<td>Operating portable pump.</td>
</tr>
<tr>
<td>70</td>
<td>Other incident scene activity, other.</td>
</tr>
<tr>
<td>8</td>
<td><strong>Station Activity</strong></td>
</tr>
<tr>
<td>81</td>
<td>Moving about station, alarm sounding.</td>
</tr>
<tr>
<td>82</td>
<td>Moving about station, normal activity.</td>
</tr>
<tr>
<td>83</td>
<td>Station maintenance.</td>
</tr>
<tr>
<td>84</td>
<td>Vehicle maintenance.</td>
</tr>
<tr>
<td>85</td>
<td>Equipment maintenance.</td>
</tr>
<tr>
<td>86</td>
<td>Physical fitness activity, supervised.</td>
</tr>
<tr>
<td>87</td>
<td>Physical fitness activity, unsupervised.</td>
</tr>
<tr>
<td>88</td>
<td>Training activity or drill.</td>
</tr>
<tr>
<td>80</td>
<td>Station activity, other.</td>
</tr>
<tr>
<td>9</td>
<td><strong>Other Activity</strong></td>
</tr>
<tr>
<td>91</td>
<td>Incident investigation, during incident.</td>
</tr>
<tr>
<td>92</td>
<td>Incident investigation, after incident.</td>
</tr>
<tr>
<td>93</td>
<td>Inspection activity.</td>
</tr>
<tr>
<td>94</td>
<td>Administrative work.</td>
</tr>
<tr>
<td>95</td>
<td>Communications work.</td>
</tr>
<tr>
<td>00</td>
<td>Activity, other.</td>
</tr>
<tr>
<td></td>
<td><strong>UU Undetermined.</strong></td>
</tr>
</tbody>
</table>

**Primary Apparent Symptom - Section H**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Smoke inhalation.</td>
</tr>
<tr>
<td>02</td>
<td>Hazardous fumes inhalation.</td>
</tr>
<tr>
<td>03</td>
<td>Breathing difficulty or shortness of breath.</td>
</tr>
<tr>
<td>11</td>
<td>Burns and smoke inhalation.</td>
</tr>
<tr>
<td>12</td>
<td>Burns only: thermal.</td>
</tr>
<tr>
<td>13</td>
<td>Burn: scald.</td>
</tr>
<tr>
<td>14</td>
<td>Burn: chemical.</td>
</tr>
<tr>
<td>15</td>
<td>Burn: electric.</td>
</tr>
<tr>
<td>21</td>
<td>Cut or laceration.</td>
</tr>
<tr>
<td>22</td>
<td>Stab wound/puncture wound: penetrating.</td>
</tr>
<tr>
<td>23</td>
<td>Gunshot wound; projectile wound.</td>
</tr>
<tr>
<td>24</td>
<td>Contusion/bruise: minor trauma.</td>
</tr>
<tr>
<td>25</td>
<td>Abrasion.</td>
</tr>
<tr>
<td>31</td>
<td>Dislocation.</td>
</tr>
<tr>
<td>32</td>
<td>Fracture.</td>
</tr>
<tr>
<td>33</td>
<td>Strain or sprain.</td>
</tr>
<tr>
<td>34</td>
<td>Swelling.</td>
</tr>
<tr>
<td>35</td>
<td>Crushing.</td>
</tr>
<tr>
<td>36</td>
<td>Amputation.</td>
</tr>
<tr>
<td>41</td>
<td>Cardiac symptoms.</td>
</tr>
<tr>
<td>42</td>
<td>Cardiac arrest.</td>
</tr>
<tr>
<td>43</td>
<td>Stroke.</td>
</tr>
<tr>
<td>44</td>
<td>Respiratory arrest.</td>
</tr>
<tr>
<td>51</td>
<td>Chills.</td>
</tr>
<tr>
<td>52</td>
<td>Fever.</td>
</tr>
<tr>
<td>53</td>
<td>Nausea.</td>
</tr>
<tr>
<td>54</td>
<td>Vomiting.</td>
</tr>
<tr>
<td>55</td>
<td>Numbness or tingling, paresthesia.</td>
</tr>
<tr>
<td>56</td>
<td>Paralysis.</td>
</tr>
<tr>
<td>57</td>
<td>Frostbite.</td>
</tr>
<tr>
<td>50</td>
<td>Sickness, other.</td>
</tr>
<tr>
<td>61</td>
<td>Miscarriage.</td>
</tr>
<tr>
<td>63</td>
<td>Eye trauma, avulsion.</td>
</tr>
<tr>
<td>64</td>
<td>Drowning.</td>
</tr>
<tr>
<td>65</td>
<td>Foreign body obstruction.</td>
</tr>
<tr>
<td>66</td>
<td>Electric shock.</td>
</tr>
<tr>
<td>67</td>
<td>Poison.</td>
</tr>
<tr>
<td>71</td>
<td>Convulsion or seizure.</td>
</tr>
<tr>
<td>72</td>
<td>Internal trauma.</td>
</tr>
<tr>
<td>73</td>
<td>Hemorrhaging, bleeding internally.</td>
</tr>
</tbody>
</table>
### Primary Apparent Symptom - Section H1 (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>81</td>
<td>Disorientation</td>
</tr>
<tr>
<td>82</td>
<td>Dizziness/fainting/weakness.</td>
</tr>
<tr>
<td>83</td>
<td>Exhaustion/fatigue, including heat exhaustion.</td>
</tr>
<tr>
<td>84</td>
<td>Heat stroke</td>
</tr>
<tr>
<td>85</td>
<td>Dehydration</td>
</tr>
<tr>
<td>91</td>
<td>Allergic reaction, including anaphylactic shock.</td>
</tr>
<tr>
<td>92</td>
<td>Drug overdose</td>
</tr>
<tr>
<td>93</td>
<td>Alcohol impairment</td>
</tr>
<tr>
<td>94</td>
<td>Emotional/psychological stress.</td>
</tr>
<tr>
<td>95</td>
<td>Mental disorder</td>
</tr>
<tr>
<td>96</td>
<td>Shock</td>
</tr>
<tr>
<td>97</td>
<td>Unconscious</td>
</tr>
<tr>
<td>98</td>
<td>Pain only</td>
</tr>
<tr>
<td>00</td>
<td>Other</td>
</tr>
<tr>
<td>NN</td>
<td>None</td>
</tr>
<tr>
<td>UU</td>
<td>Undetermined</td>
</tr>
</tbody>
</table>

### Primary Part of Body Injured - Section H2:

#### 1 Head

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Ear</td>
</tr>
<tr>
<td>12</td>
<td>Eye</td>
</tr>
<tr>
<td>13</td>
<td>Nose</td>
</tr>
<tr>
<td>14</td>
<td>Mouth included (lips, teeth and interior)</td>
</tr>
<tr>
<td>10</td>
<td>Head, other</td>
</tr>
</tbody>
</table>

#### 2 Neck & Shoulders

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Neck</td>
</tr>
<tr>
<td>22</td>
<td>Throat</td>
</tr>
<tr>
<td>23</td>
<td>Shoulder</td>
</tr>
</tbody>
</table>

#### 3 Thorax

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Back, except spine</td>
</tr>
<tr>
<td>32</td>
<td>Chest</td>
</tr>
<tr>
<td>30</td>
<td>Thorax, other (conversion only)</td>
</tr>
</tbody>
</table>

#### 4 Abdominal Area

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>41</td>
<td>Abdomen</td>
</tr>
<tr>
<td>42</td>
<td>Pelvis or groin</td>
</tr>
<tr>
<td>43</td>
<td>Hip, lower back or buttocks</td>
</tr>
</tbody>
</table>

#### 5 Spine

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>51</td>
<td>Spine</td>
</tr>
</tbody>
</table>

#### 6 Upper Extremities

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>Arm, upper, not including elbow or shoulder.</td>
</tr>
<tr>
<td>62</td>
<td>Arm, lower, not including elbow or wrist.</td>
</tr>
<tr>
<td>63</td>
<td>Elbow</td>
</tr>
</tbody>
</table>

#### 7 Lower Extremities

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>Leg, upper</td>
</tr>
<tr>
<td>72</td>
<td>Leg, lower</td>
</tr>
<tr>
<td>73</td>
<td>Knee</td>
</tr>
<tr>
<td>74</td>
<td>Ankle</td>
</tr>
<tr>
<td>75</td>
<td>Foot and toes</td>
</tr>
<tr>
<td>70</td>
<td>Lower extremities, other (conversion only)</td>
</tr>
</tbody>
</table>

#### 8 Internal

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>81</td>
<td>Trachea and lungs</td>
</tr>
<tr>
<td>82</td>
<td>Heart</td>
</tr>
<tr>
<td>83</td>
<td>Stomach</td>
</tr>
<tr>
<td>84</td>
<td>Intestinal tract</td>
</tr>
<tr>
<td>85</td>
<td>Genito-urinary</td>
</tr>
<tr>
<td>80</td>
<td>Internal, other</td>
</tr>
</tbody>
</table>

#### 9 Multiple Parts

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>91</td>
<td>Multiple body parts, upper part of body.</td>
</tr>
<tr>
<td>92</td>
<td>Multiple body parts, lower part of body.</td>
</tr>
<tr>
<td>93</td>
<td>Multiple body parts, whole body.</td>
</tr>
<tr>
<td>00</td>
<td>Body part, other</td>
</tr>
<tr>
<td>UU</td>
<td>Part of body undetermined</td>
</tr>
<tr>
<td>NN</td>
<td>None</td>
</tr>
</tbody>
</table>

### Cause of Firefighter Injury - Section I1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fall</td>
</tr>
<tr>
<td>2</td>
<td>Jump</td>
</tr>
<tr>
<td>3</td>
<td>Slip/trip</td>
</tr>
<tr>
<td>4</td>
<td>Exposure to hazard</td>
</tr>
<tr>
<td>5</td>
<td>Struck or assaulted by person/animal/object</td>
</tr>
<tr>
<td>6</td>
<td>Contact with object (firefighter moved into/onto)</td>
</tr>
<tr>
<td>7</td>
<td>Overexertion/strain</td>
</tr>
<tr>
<td>0</td>
<td>Cause of injury, other</td>
</tr>
<tr>
<td>U</td>
<td>Undetermined</td>
</tr>
</tbody>
</table>

### Factor Contributing to Injury - Section I2:

#### 1 Collapse or Falling Object

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Roof collapse</td>
</tr>
<tr>
<td>12</td>
<td>Wall collapse</td>
</tr>
<tr>
<td>13</td>
<td>Floor collapse</td>
</tr>
<tr>
<td>14</td>
<td>Ceiling collapse</td>
</tr>
<tr>
<td>15</td>
<td>Stair collapse</td>
</tr>
</tbody>
</table>

---

**Data Dictionary - Fire Service Casualty Module**

**NFIRS Version 5.0 Design Documentation - January 2005**

---
## Factor Contributing to Injury - Section I (continued)

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Falling objects.</td>
</tr>
<tr>
<td>17</td>
<td>Cave-in (earth).</td>
</tr>
<tr>
<td>10</td>
<td>Collapse or falling object, other.</td>
</tr>
<tr>
<td>2</td>
<td>Fire Development</td>
</tr>
<tr>
<td>21</td>
<td>Fire progress, including smoky conditions.</td>
</tr>
<tr>
<td>22</td>
<td>Backdraft.</td>
</tr>
<tr>
<td>23</td>
<td>Flashover.</td>
</tr>
<tr>
<td>24</td>
<td>Explosion.</td>
</tr>
<tr>
<td>20</td>
<td>Fire development, other.</td>
</tr>
<tr>
<td>3</td>
<td>Lost, Caught, Trapped, Confined</td>
</tr>
<tr>
<td>31</td>
<td>Person physically caught or trapped.</td>
</tr>
<tr>
<td>32</td>
<td>Lost in building.</td>
</tr>
<tr>
<td>33</td>
<td>Operating in confined structural areas.</td>
</tr>
<tr>
<td>34</td>
<td>Operating under water or ice.</td>
</tr>
<tr>
<td>30</td>
<td>Lost, caught, trapped, or confined, other.</td>
</tr>
<tr>
<td>4</td>
<td>Holes</td>
</tr>
<tr>
<td>41</td>
<td>Unguarded hole in structure.</td>
</tr>
<tr>
<td>42</td>
<td>Hole burned through roof.</td>
</tr>
<tr>
<td>43</td>
<td>Hole burned through floor.</td>
</tr>
<tr>
<td>40</td>
<td>Holes, other.</td>
</tr>
<tr>
<td>5</td>
<td>Slippery or Uneven Surfaces</td>
</tr>
<tr>
<td>51</td>
<td>Icy surface.</td>
</tr>
<tr>
<td>52</td>
<td>Wet surface, included are water/soap/foam, etc.</td>
</tr>
<tr>
<td>53</td>
<td>Loose material on surface.</td>
</tr>
<tr>
<td>54</td>
<td>Uneven surface, included are holes in the ground.</td>
</tr>
<tr>
<td>50</td>
<td>Slippery or uneven surfaces, other.</td>
</tr>
<tr>
<td>6</td>
<td>Vehicle or Apparatus</td>
</tr>
<tr>
<td>61</td>
<td>Vehicle left road or overturned.</td>
</tr>
<tr>
<td>62</td>
<td>Vehicle collided with another vehicle.</td>
</tr>
<tr>
<td>63</td>
<td>Vehicle collided with nonvehicular object.</td>
</tr>
<tr>
<td>64</td>
<td>Vehicle stopped too fast.</td>
</tr>
<tr>
<td>65</td>
<td>Seat belt not fastened.</td>
</tr>
<tr>
<td>66</td>
<td>Firefighter standing on apparatus.</td>
</tr>
<tr>
<td>60</td>
<td>Vehicle or apparatus, other.</td>
</tr>
<tr>
<td>9</td>
<td>Other Contributing Factors</td>
</tr>
<tr>
<td>91</td>
<td>Civil unrest, including riots/civil disturbances.</td>
</tr>
<tr>
<td>92</td>
<td>Hostile acts.</td>
</tr>
<tr>
<td>00</td>
<td>Contributing factor, other.</td>
</tr>
<tr>
<td>NN</td>
<td>None.</td>
</tr>
<tr>
<td>UU</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

## Object Involved in Injury - Section I

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Coupling.</td>
</tr>
<tr>
<td>12</td>
<td>Hose, not charged.</td>
</tr>
<tr>
<td>13</td>
<td>Hose, charged.</td>
</tr>
<tr>
<td>14</td>
<td>Water from master stream.</td>
</tr>
<tr>
<td>15</td>
<td>Water from hose line.</td>
</tr>
<tr>
<td>16</td>
<td>Water, not from a hose.</td>
</tr>
<tr>
<td>17</td>
<td>Steam.</td>
</tr>
<tr>
<td>18</td>
<td>Extinguishing agent.</td>
</tr>
<tr>
<td>21</td>
<td>Ladder: aerial.</td>
</tr>
<tr>
<td>22</td>
<td>Ladder: ground.</td>
</tr>
<tr>
<td>23</td>
<td>Tools/equipment.</td>
</tr>
<tr>
<td>24</td>
<td>Knife, scissors.</td>
</tr>
<tr>
<td>25</td>
<td>Syringe.</td>
</tr>
<tr>
<td>26</td>
<td>FD vehicle/apparatus.</td>
</tr>
<tr>
<td>27</td>
<td>FD vehicle door, including apparatus compartments.</td>
</tr>
<tr>
<td>28</td>
<td>Station sliding pole.</td>
</tr>
<tr>
<td>31</td>
<td>Curb.</td>
</tr>
<tr>
<td>32</td>
<td>Door in building.</td>
</tr>
<tr>
<td>33</td>
<td>Fire escape.</td>
</tr>
<tr>
<td>34</td>
<td>Ledge.</td>
</tr>
<tr>
<td>35</td>
<td>Stairs.</td>
</tr>
<tr>
<td>36</td>
<td>Wall, including other vertical surfaces.</td>
</tr>
<tr>
<td>37</td>
<td>Window.</td>
</tr>
<tr>
<td>38</td>
<td>Roof.</td>
</tr>
<tr>
<td>39</td>
<td>Floor or ceiling.</td>
</tr>
<tr>
<td>30</td>
<td>Structural component, other.</td>
</tr>
<tr>
<td>41</td>
<td>Asbestos.</td>
</tr>
<tr>
<td>42</td>
<td>Dirt, stones, or debris.</td>
</tr>
<tr>
<td>43</td>
<td>Glass.</td>
</tr>
<tr>
<td>45</td>
<td>Nails.</td>
</tr>
<tr>
<td>46</td>
<td>Splinters.</td>
</tr>
<tr>
<td>47</td>
<td>Embers.</td>
</tr>
<tr>
<td>48</td>
<td>Hot tar.</td>
</tr>
<tr>
<td>49</td>
<td>Hot metal.</td>
</tr>
<tr>
<td>51</td>
<td>Biological agents.</td>
</tr>
<tr>
<td>52</td>
<td>Chemicals.</td>
</tr>
<tr>
<td>53</td>
<td>Fumes, gases, or smoke.</td>
</tr>
<tr>
<td>54</td>
<td>Poisonous plants.</td>
</tr>
<tr>
<td>55</td>
<td>Insects.</td>
</tr>
<tr>
<td>56</td>
<td>Radioactive materials.</td>
</tr>
<tr>
<td>61</td>
<td>Electricity.</td>
</tr>
<tr>
<td>62</td>
<td>Extreme weather.</td>
</tr>
</tbody>
</table>
### Object Involved in Injury - Section J1 (continued)

- **63** Utility flames, flares, torches.
- **64** Heat or flame.
- **91** Person: victim.
- **92** Property and structure contents.
- **93** Animal.
- **94** Non-fire department vehicle.
- **95** Gun, including all other projectile weapons.
- **90** Person, other.
- **00** Object involved, other.
- **NN** None.
- **UU** Undetermined.

### Where Injury Occurred - Section J2

- **1** Enroute to fire department location.
- **2** At fire department location.
- **3** Enroute to incident or assignment.
- **4** Enroute to medical facility.
- **5** At scene, in structure.
- **6** At scene, outside structure.
- **7** At medical facility.
- **8** Returning from incident or assignment.
- **9** Returning from medical facility.
- **0** Location, other.
- **U** Undetermined.

### Injury Relationship to Structure - Section J2

- **1** Inside or on structure.
- **2** Outside of structure.

### Specific Location Where Injury Occurred - Section J3

- **22** Outside at grade.
- **23** On roof.
- **24** On aerial ladder or in basket.
- **25** On ground ladder.
- **26** On vertical surface or ledge.
- **27** On fire escape or outside stairway.
- **28** On steep grade.
- **31** In open pit.
- **32** In ditch or trench.
- **33** In quarry or mine.
- **34** In ravine.
- **35** In well.
- **36** In water.
- **45** In attic or other confined structural space.
- **49** In structure, excluding attic, roof, or wall.
- **53** In tunnel.
- **54** In sewer.
- **61** In motor vehicle.
- **63** In rail vehicle.
- **64** In boat, ship or barge.
- **65** In aircraft.
- **00** Specific location, other.
- **UU** Undetermined.

### Vehicle Type - Section J4

- **1** Suppression vehicle.
- **2** EMS vehicle.
- **3** Other fire department vehicle.
- **4** Non-fire department vehicle (includes POV).
- **U** Vehicle type undetermined (Conversion only).
- **N** None.

### Equipment Failed - Section K1

- **Y** Yes.
- **N** No.

### Protective Equipment Item - Section K2

#### Head or Face Protection

- **11** Helmet.
- **12** Full face protector.
- **13** Partial face protector.
- **14** Goggles/eye protection.
- **15** Hood.
- **16** Ear protector.
- **17** Neck protector.
- **10** Head or face protection, other.

#### Coat, Shirt or Trousers

- **21** Protective coat.
- **22** Protective trousers.
- **23** Uniform shirt.
- **24** Uniform T-shirt.
- **25** Uniform trousers.
- **26** Uniform coat or jacket.
- **27** Coveralls.
- **28** Apron or gown.
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Coat, shirt or trousers, other.</td>
</tr>
<tr>
<td>3</td>
<td>Boots or Shoes</td>
</tr>
<tr>
<td>31</td>
<td>Knee-length boots w/steel baseplate &amp; steel toes.</td>
</tr>
<tr>
<td>32</td>
<td>Knee-length boots with steel toes only.</td>
</tr>
<tr>
<td>33</td>
<td>3/4-length boots w/steel baseplate &amp; steel toes.</td>
</tr>
<tr>
<td>34</td>
<td>3/4-length boots with steel toes only.</td>
</tr>
<tr>
<td>35</td>
<td>Boots without steel baseplate or steel toes.</td>
</tr>
<tr>
<td>36</td>
<td>Safety shoes with steel baseplate and steel toes.</td>
</tr>
<tr>
<td>37</td>
<td>Safety shoes with steel toes only.</td>
</tr>
<tr>
<td>38</td>
<td>Non-safety shoes.</td>
</tr>
<tr>
<td>39</td>
<td>Boots or shoes, other.</td>
</tr>
<tr>
<td>4</td>
<td>Respiratory Protection</td>
</tr>
<tr>
<td>41</td>
<td>Self-contained breathing apparatus (SCBA) demand.</td>
</tr>
<tr>
<td>42</td>
<td>Self-contained breathing apparatus (SCBA) positive.</td>
</tr>
<tr>
<td>43</td>
<td>Self-contained breathing apparatus (SCBA) closed.</td>
</tr>
<tr>
<td>44</td>
<td>Non-self-contained breathing apparatus.</td>
</tr>
<tr>
<td>45</td>
<td>Cartridge respirator.</td>
</tr>
<tr>
<td>46</td>
<td>Dust or particle mask.</td>
</tr>
<tr>
<td>47</td>
<td>Respiratory protection, other.</td>
</tr>
<tr>
<td>5</td>
<td>Hand Protection</td>
</tr>
<tr>
<td>51</td>
<td>Firefighter gloves with wristlets.</td>
</tr>
<tr>
<td>52</td>
<td>Firefighter gloves without wristlets.</td>
</tr>
<tr>
<td>53</td>
<td>Work gloves.</td>
</tr>
<tr>
<td>54</td>
<td>HazMat gloves.</td>
</tr>
<tr>
<td>55</td>
<td>Medical gloves.</td>
</tr>
<tr>
<td>56</td>
<td>Hand protection, other.</td>
</tr>
<tr>
<td>6</td>
<td>Special Equipment</td>
</tr>
<tr>
<td>61</td>
<td>Proximity suit for entry.</td>
</tr>
<tr>
<td>62</td>
<td>Proximity suit for non-entry.</td>
</tr>
<tr>
<td>63</td>
<td>Totally encapsulated, reusable chemical suit.</td>
</tr>
<tr>
<td>64</td>
<td>Totally encapsulated, disposable chemical suit.</td>
</tr>
<tr>
<td>65</td>
<td>Partially encapsulated, reusable chemical suit.</td>
</tr>
<tr>
<td>66</td>
<td>Partially encapsulated, disposable chemical suit.</td>
</tr>
<tr>
<td>67</td>
<td>Flash protection suit.</td>
</tr>
<tr>
<td>68</td>
<td>Flight or jump suit.</td>
</tr>
<tr>
<td>69</td>
<td>Brush suit.</td>
</tr>
<tr>
<td>7</td>
<td>Special Equipment Continued</td>
</tr>
<tr>
<td>71</td>
<td>Exposure suit.</td>
</tr>
<tr>
<td>72</td>
<td>Self-contained underwater breathing apparatus (SCUBA).</td>
</tr>
<tr>
<td>73</td>
<td>Life preserver.</td>
</tr>
<tr>
<td>74</td>
<td>Life belt or ladder belt.</td>
</tr>
<tr>
<td>75</td>
<td>Personal alert safety system (PASS).</td>
</tr>
<tr>
<td>76</td>
<td>Radio distress device.</td>
</tr>
<tr>
<td>77</td>
<td>Personal lighting.</td>
</tr>
<tr>
<td>78</td>
<td>Fire shelter or tent.</td>
</tr>
<tr>
<td>79</td>
<td>Vehicle safety belt.</td>
</tr>
<tr>
<td>80</td>
<td>Special equipment, other.</td>
</tr>
<tr>
<td>81</td>
<td>Other protective equipment item.</td>
</tr>
<tr>
<td>82</td>
<td>Undetermined (conversion only).</td>
</tr>
<tr>
<td>83</td>
<td>None (conversion only).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>84</td>
<td>Protective equipment problem, other.</td>
</tr>
<tr>
<td>85</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>
EMS Module Data Dictionary

Provider Impression/Assessment - Section D
10 Abdominal pain.
11 Airway obstruction.
12 Allergic reaction, excludes stings & venomous bite.
13 Altered level of consciousness.
14 Behavioral - mental status, psychiatric disorder.
15 Burns.
16 Cardiac arrest.
17 Cardiac dysrhythmia.
18 Chest pain.
19 Diabetic symptom.
20 Do not resuscitate.
21 Electrocution.
22 General illness.
23 Hemorrhaging/bleeding.
24 Hyperthermia.
25 Hypothermia.
26 Hypovolemia.
27 Inhalation injury, toxic gases.
28 Obvious death.
29 Overdose/poisoning.
30 Pregnancy/OB.
31 Respiratory arrest.
32 Respiratory distress.
33 Seizure.
34 Apparent sexual assault.
35 Sting/bite.
36 Stroke/CVA.
37 Syncope, fainting.
38 Trauma.
00 Impression/assessment, other.
NN None/no patient or refused treatment.

Gender - Section E2
1 Male.
2 Female.

Race - Section F1
1 White.
2 Black or African American.
3 American Indian or Alaska native.
4 Asian.
5 Native Hawaiian or other Pacific Islander.
6 Other, includes multi-racial.
U Undetermined.

Ethnicity - Section E2
1 Hispanic.
0 Other.

Human Factors Contributing to Injury - Section G1
Please Note:
The code set table used for this data element is the same set that is used for Human Factors Contributing to Injury, section J in the Civilian Fire Casualty Module. Please refer to page 187 for the codes listed for that data element.

Other Factors - Section G2
1 Accidental.
2 Self-inflicted.
3 Inflicted, not self-inflicted.
N None.

Body Site of Injury - Section H1
1 Head.
2 Neck or shoulder.
3 Thorax, includes chest and back, excludes spine.
4 Abdomen.
5 Spine.
6 Upper extremities.
7 Lower extremities.
8 Internal.
9 Multiple body parts.
0 Other area (conversion only).
U Undetermined (conversion only).

Injury Type - Section H2
10 Amputation.
11 Blunt Injury.
12 Burn.
13 Crush.
14 Dislocate/fracture.
15 Gunshot.
16 Laceration.
17 Pain without swelling.
18 Puncture/stab.
19 Soft tissue swelling.
00 Injury type, other.
Cause of Illness/Injury - Section H:
10 Chemical exposure.
11 Drug poisoning.
12 Fall.
13 Aircraft related.
14 Bite, includes animal bites.
15 Bicycle accident.
16 Building collapse/construction accident.
17 Drowning.
18 Electrical shock.
19 Cold.
20 Heat.
21 Explosives.
22 Fire and flames.
23 Firearm.
25 Fireworks.
26 Lightning.
27 Machinery.
28 Mechanical suffocation.
29 Motor vehicle accident.
30 Motor vehicle accident, pedestrian.
31 Non-traffic vehicle (off-road) accident.
32 Physical assault/abuse.
33 Scalds/other thermal.
34 Smoke inhalation.
35 Stabbing assault.
36 Venomous sting.
37 Water transport.
00 Cause, other.
UU Unknown.

Procedures Used - Section I:
01 Airway insertion.
02 Anti-shock trousers.
03 Assisted ventilation.
04 Bleeding control.
05 Burn care.
06 Cardiac pacing.
07 Cardioversion (defib), manual.
08 Chest/abdominal thrust.
09 CPR.
10 Cricothyroidotomy.
11 Defibrillation by AED.
12 EKG monitoring.
13 Extrication.
14 Intubation (EGTA).
15 Intubation (ET).
16 IO/IV therapy.
17 Medications therapy.
18 Oxygen therapy.
19 Obstetrical care/delivery.
20 Prearrival instructions.
21 Restrained patient.
22 Spinal immobilization.
23 Splinted extremities.
24 Suction/aspirate.
00 Procedures used, other.
NN No treatment.

Safety Equipment - Section J:
1 Safety, seat belts.
2 Child safety seat.
3 Airbag.
4 Helmet.
5 Protective clothing.
6 Flotation device.
N None.
0 Safety equipment, other.
U Undetermined.

Cardiac Arrest - Section K:
1 Pre-arrival arrest.
2 Post arrival arrest.

Pre-Arrival Details - Section K:
1 Witnessed.
2 Bystander CPR.

Initial Arrest Rhythm - Section K:
1 V-Fib/V-Tach.
0 Initial arrest rhythm, other.
U Undetermined.

Initial Level of Provider - Section L:
1 First Responder.
2 EMT-B (Basic).
3 EMT-I (Intermediate).
4 EMT-P (Paramedic).
0 Other health care provider.
N No training.
### Highest Level of Care Provided on Scene - Section L

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>First Responder.</td>
</tr>
<tr>
<td>2</td>
<td>EMT-B (Basic).</td>
</tr>
<tr>
<td>3</td>
<td>EMT-I (Intermediate).</td>
</tr>
<tr>
<td>4</td>
<td>EMT-P (Paramedic).</td>
</tr>
<tr>
<td>0</td>
<td>Other health care provider.</td>
</tr>
<tr>
<td>N</td>
<td>No care provided.</td>
</tr>
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</table>

### Patient Status - Section M

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Improved.</td>
</tr>
<tr>
<td>2</td>
<td>Remained Same.</td>
</tr>
<tr>
<td>3</td>
<td>Worsened.</td>
</tr>
</tbody>
</table>

### Pulse on Transfer - Section M

<table>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Pulse on Transfer.</td>
</tr>
<tr>
<td>2</td>
<td>No Pulse on Transfer.</td>
</tr>
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### EMS Disposition - Section N

<table>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FD transport to emergency care facility (ECF).</td>
</tr>
<tr>
<td>2</td>
<td>Non-FD transport.</td>
</tr>
<tr>
<td>3</td>
<td>Non-FD transport with FD attendant.</td>
</tr>
<tr>
<td>4</td>
<td>Non-emergency transfer.</td>
</tr>
<tr>
<td>0</td>
<td>Other.</td>
</tr>
<tr>
<td>N</td>
<td>Not transported under EMS.</td>
</tr>
</tbody>
</table>
HazMat Chemical Database

The HazMat Chemical Database is provided to developers as a means of maintaining consistency with the NFIRS 5.0 standard software and also in order to improve consistency and usability of chemical name information collected in the NFIRS 5.0 HazMat module.

The HazMat Chemical Database consists of many, but not all, of the most commonly released chemicals currently responded to by the nation’s fire service. The HazMat Chemical Database was created as a product of the development of the Hazardous Materials Guide for First Responders which, in turn, was developed under the Firefighters’ Safety Study Act (Pub. L. 101-446 - Oct. 22, 1990). The database is intended to be a living document and will be updated on a regular basis as warranted.

Intended Use By Developers

The Chemical Database contains a Chemical ID Number, which should be used as an internal key uniquely identifying chemicals and their associated trade names. The Chemical ID Number key is designed for internal use by software only and is organized in the following manner:

3. Digits 1 through 4 are the unique identifier for a chemical (ex. Acetal is 0001).
4. Digits 5 through 7 are a unique identifier for synonyms or trade names for that chemical.
5. Zeros (000), in the Trade Name Identifier (positions 5 though 7) indicate a base chemical name (not a trade name).
6. If the Trade Name Identifier is greater than zeros (001-999), the record is a trade name alias for the base chemical.
7. Base chemicals and their associated trade names share a common unique identifier (positions 1-4).

Example:

Acetal has a Chemical ID Number of 0001000. The numbers 0001 in positions 1-4 uniquely identify the chemical as Acetal. The last three digits are zeros so Acetal is the base chemical name. Acetal also has several synonyms. Is it also known as Acetaldehyde ethylacetel, which has a Chemical ID number of 0001001. The first four positions (0001) are the same (indicating it is still Acetal) but the 001 in the last 3 positions indicates that it is the first trade name for Acetal. Acetal has three trade names (001-003) associated with it in the HazMat Chemical Database. They are all the same chemical as the base chemical name Acetal (0001).

Data Entry Guidelines

Chemicals selected from the database by the user must be taken from the HazMat Chemical database table and stored in the Chemical Name field. If a chemical trade name is selected (positions 5-7 greater than zeros) the base chemical name (000 record) should be stored in the field. The associated UN Number and CAS number may also be automatically filled from the database when there is a match and those values are present in the record. If the chemical involved is not present in the Chemical Database, the user must be allowed to directly enter the name of the chemical, the UN Number and the CAS Number into the appropriate fields.

This method outlined above allows for uniform spelling and formatting of data when values are present in the database but does not preclude entry of chemical names if they are not present in the database. Using the example above, if there was yet another trade name for Acetal that was not included in the HazMat Chemical Database, the user should be allowed to enter that trade name into the Chemical Name field even though it was not present in the database.

The most current version of the Chemical Database may be obtained from the USFA web site at:

http://www.nfirs.fema.gov/documentation/design/
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ID #</th>
<th>UN #</th>
<th>CAS#</th>
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</thead>
<tbody>
<tr>
<td>(Chloromethyl) benzene</td>
<td>0045002</td>
<td>1738</td>
<td>100-44-7</td>
</tr>
<tr>
<td>(Diethylamino) ethane</td>
<td>0392001</td>
<td>1296</td>
<td>121-44-8</td>
</tr>
<tr>
<td>1-(Chloromethyl)-4-nitrobenzene</td>
<td>0702000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-(2-Tolyl) thiourea</td>
<td>0292001</td>
<td>614-78-8</td>
<td></td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>0389000</td>
<td>2831</td>
<td>71-55-6</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
<td>0374005</td>
<td>1702</td>
<td>79-34-5</td>
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<tr>
<td>1,1,2-Trichloro-1,2,2-trifluoroethane</td>
<td>1715000</td>
<td></td>
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<tr>
<td>1,1-DCE</td>
<td>1834000</td>
<td></td>
<td></td>
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<td>1,1-Di(tert-butylperoxy)cyclohexane</td>
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<tr>
<td>1,1-Dichloroethane</td>
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<td>2362</td>
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<td>1,1-Dimethylethyl hydroperoxide</td>
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<td>Chemical Name</td>
<td>ID #</td>
<td>UN #</td>
<td>CAS#</td>
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<td>1-Hexene</td>
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<td>1-Methyl naphthalene</td>
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<td>2-Chloronaphthalene</td>
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</tr>
<tr>
<td>2-(2,4,5-Trichlorophenoxy) propanoic acid</td>
<td>1709000</td>
<td>2765</td>
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</tr>
<tr>
<td>2-(2-Aminoethoxy) ethanol</td>
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<tr>
<td>2,2',2''-Trichlorotriethylamine</td>
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<tr>
<td>Xenon</td>
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<td>Xylene</td>
<td>0412000</td>
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<tr>
<td>Xylenol</td>
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<tr>
<td>Xyloil</td>
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<td>Yellow phosphorus</td>
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<td>7723-14-0</td>
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<td>Zectran</td>
<td>1785000</td>
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</tr>
<tr>
<td>Zinc</td>
<td>1786000</td>
<td>1436</td>
<td></td>
</tr>
<tr>
<td>Zinc acetate</td>
<td>1787000</td>
<td>9153</td>
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</tr>
<tr>
<td>Zinc ammonium chloride</td>
<td>1788000</td>
<td>9154</td>
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</tr>
<tr>
<td>Zinc arsenate</td>
<td>1789000</td>
<td>1712</td>
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<td>Zinc bichromate</td>
<td>1790000</td>
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<td></td>
</tr>
<tr>
<td>Zinc borate</td>
<td>1791000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DOT Hazard Classification - Section B

10 Class 1 – Explosives, other (conversion only).

11 Division 1.1 Explosives with mass explosion hazard.

12 Division 1.2 Explosives with projectile hazard.

13 Division 1.3 Explosives w/predominant fire hazard.

14 Division 1.4 Explosives with no significant blast hazard.

15 Division 1.5 Very insensitive explosives; blasting agents.

16 Division 1.6 Extremely insensitive detonating substances.

20 Class 2 – Gases, other (conversion only).

21 Division 2.1 Flammable gases.

22 Division 2.2 Non-flammable.

23 Division 2.3 Gases toxic by inhalation.

24 Division 2.4 Corrosive gases (Canada).

30 Class 3 - Flammable/Combustible Liquids.

40 Class 4 - Flammable Solids, other (conversion only).

41 Division 4.1 Flammable solids.

42 Division 4.2 Spontaneously combustible materials.

43 Division 4.3 Dangerous-when-wet materials.

50 Class 5 - Oxidizers and Organic peroxides, other (conversion only).

51 Division 5.1 Oxidizers.

52 Division 5.2 Organic peroxides.

60 Class 6 - Toxic, Infectious material or sub., other (conversion only).

61 Division 6.1 Toxic materials.

62 Division 6.2 Infectious substances.

70 Class 7 - Radioactive materials.

80 Class 8 - Corrosive materials.

90 Class 9 - Miscellaneous dangerous goods, other (conversion only).

91 Division 9.1 Miscellaneous dangerous goods- Canada.

92 Division 9.2 Environmentally hazardous substances.

93 Division 9.3 Dangerous wastes (Canada).

UU Undetermined.

Container Type - Section C1

00 Container type, other.

1 Portable Container

10 Portable container, other.

11 Drum.

12 Cylinder.

13 Can or bottle.

14 Carboy.

15 Box or carton.

16 Bag or sack.

17 Cask.

18 Hose.

2 Fixed Container

20 Fixed container, other.

21 Tank or silo.

22 Pipe or pipeline.

23 Bin.

24 Machinery or process equipment.

28 Hose.

3 Natural Containment

30 Natural container, other.

31 Sump or pit.

32 Pond or surface impoundment.

33 Well.

34 Dump site or landfill.

4 Mobile Container

40 Mobile container, other.

41 Vehicle fuel tank and associated piping.

42 Product tank on or towed by vehicle.

43 Piping associated with mobile product tank loading or offloading.

48 Hose.

9 Other Containers

91 Rigid Intermediate Bulk Container (RIBC).

00 Container type, other.

NN None.

UU Undetermined.

Units: Capacity - Section C3

1 Volume Units

11 Ounces (liquid).

12 Gallons.

13 Barrels (42 gal).

14 Liters.

15 Cubic feet.

16 Cubic meters.

2 Weight Units

21 Ounces (weight).

22 Pounds.

23 Grams.

24 Kilograms.
Units: Released - Section D2
Please Note:
The code set table used for this data element is the same set that is used for Units: Capacity, section C3 in the Hazmat Module. Please refer to page 236 for the codes listed for that data element.

Physical State When Released - Section E1
1 Solid.
2 Liquid.
3 Gas.
U Undetermined.

Released Into - Section E2
1 Air.
2 Water.
3 Ground.
4 Water and ground.
5 Air and ground.
6 Water and air.
7 Air, water, and ground.
8 Confined, no environmental impact.
U Undetermined (conversion only).

Released From - Section F1
1 Inside or on structure.
2 Outside of structure.

Population Density - Section F2
1 Urban center - Densely populated.
2 Suburban - Predominantly single-family residential.
3 Rural - Scattered small communities and farms.

Area Affected - Section G1
1 Square feet.
2 Blocks.
3 Square miles.

Area Evacuated - Section G2
Please Note:
The code set table used for this data element is the same set that is used for Area Affected, section G1 in the HazMat Module. Please see the codes listed above.

HazMat Actions Taken - Section H
1 Hazardous Condition
11 Identify, analyze hazardous materials.
12 HazMat detection, monitoring, sampling, & analysis.
13 HazMat spill control and confinement.
14 HazMat leak control and containment.
15 Remove hazard or hazardous materials.
16 Decontaminate persons or equipment.
2 Isolation and Evacuation
21 Determine materials to be non-hazardous.
22 Isolate area & establish hazard control zones.
23 Provide apparatus.
24 Provide equipment.
25 Provide water.
26 Control crowd.
27 Control traffic.
28 Protect-in-place operations.
3 Information, Investigation & Enforcement
31 Refer to proper authority.
32 Notify other agencies.
33 Provide information to public or media.
34 Investigate.
35 Standby.
00 Action taken, other.

Release/Ignition Sequence - Section I
1 Ignition.
2 Release.
U Undetermined.

Cause of Release - Section J
1 Intentional.
2 Unintentional release.
3 Container or containment failure.
4 Act of nature.
5 Cause under investigation.
U Cause undetermined after investigation.

Factors Contributing to Release - Section K
3 Failure to Control Hazardous Material
31 Abandoned or discarded hazardous material.
32 Failure to maintain proper temperature.
33 Fell asleep and lost control of operations.
### Factors Contributing to Release - Section K (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>Inadequate control of hazardous materials.</td>
</tr>
<tr>
<td>37</td>
<td>Person possibly impaired by drugs or alcohol.</td>
</tr>
<tr>
<td>38</td>
<td>Person otherwise impaired or unconscious.</td>
</tr>
<tr>
<td>30</td>
<td>Failure to control hazardous materials, other.</td>
</tr>
<tr>
<td>4</td>
<td>Misuse of Hazardous Materials</td>
</tr>
<tr>
<td>42</td>
<td>Improper mixing technique.</td>
</tr>
<tr>
<td>43</td>
<td>Hazardous materials used improperly.</td>
</tr>
<tr>
<td>45</td>
<td>Improper container.</td>
</tr>
<tr>
<td>46</td>
<td>Improper movement of hazardous materials container.</td>
</tr>
<tr>
<td>47</td>
<td>Improper storage procedures.</td>
</tr>
<tr>
<td>48</td>
<td>Children playing with hazardous materials.</td>
</tr>
<tr>
<td>40</td>
<td>Misuse of hazardous materials, other.</td>
</tr>
<tr>
<td>5</td>
<td>Mechanical Failure, Malfunction</td>
</tr>
<tr>
<td>51</td>
<td>Automatic control failure.</td>
</tr>
<tr>
<td>52</td>
<td>Manual control failure.</td>
</tr>
<tr>
<td>53</td>
<td>Short circuit, ground fault.</td>
</tr>
<tr>
<td>54</td>
<td>Other part failure, leak, or break.</td>
</tr>
<tr>
<td>55</td>
<td>Other electrical failure.</td>
</tr>
<tr>
<td>56</td>
<td>Lack of maintenance, worn out.</td>
</tr>
<tr>
<td>50</td>
<td>Mechanical failure, malfunction, other.</td>
</tr>
<tr>
<td>6</td>
<td>Design, Construction, Installation Deficiency</td>
</tr>
<tr>
<td>61</td>
<td>Design deficiency.</td>
</tr>
<tr>
<td>62</td>
<td>Construction deficiency.</td>
</tr>
<tr>
<td>64</td>
<td>Installation deficiency.</td>
</tr>
<tr>
<td>60</td>
<td>Design/construction/installation deficiency, other.</td>
</tr>
<tr>
<td>7</td>
<td>Operational Deficiency</td>
</tr>
<tr>
<td>71</td>
<td>Collision, overturn, knockdown.</td>
</tr>
<tr>
<td>72</td>
<td>Accidentally turned on, not turned off.</td>
</tr>
<tr>
<td>73</td>
<td>Equipment unattended.</td>
</tr>
<tr>
<td>74</td>
<td>Equipment overload.</td>
</tr>
<tr>
<td>75</td>
<td>Failure to clean equipment.</td>
</tr>
<tr>
<td>76</td>
<td>Improper startup, shutdown procedures.</td>
</tr>
<tr>
<td>77</td>
<td>Equipment used for purpose not intended.</td>
</tr>
<tr>
<td>78</td>
<td>Equipment not being operated properly.</td>
</tr>
<tr>
<td>70</td>
<td>Operational deficiency, other.</td>
</tr>
<tr>
<td>8</td>
<td>Natural Condition</td>
</tr>
<tr>
<td>81</td>
<td>High wind.</td>
</tr>
<tr>
<td>82</td>
<td>Earthquake.</td>
</tr>
<tr>
<td>83</td>
<td>High water, flood.</td>
</tr>
<tr>
<td>84</td>
<td>Lightning.</td>
</tr>
<tr>
<td>85</td>
<td>Low humidity.</td>
</tr>
<tr>
<td>86</td>
<td>High humidity.</td>
</tr>
<tr>
<td>87</td>
<td>Low temperature.</td>
</tr>
<tr>
<td>88</td>
<td>High temperature.</td>
</tr>
<tr>
<td>80</td>
<td>Natural condition, other.</td>
</tr>
<tr>
<td>9</td>
<td>Special Release Factors</td>
</tr>
<tr>
<td>91</td>
<td>Animal.</td>
</tr>
<tr>
<td>92</td>
<td>Secondary release following previous release.</td>
</tr>
<tr>
<td>93</td>
<td>Reaction with other chemical.</td>
</tr>
<tr>
<td>97</td>
<td>Failure to use ordinary care.</td>
</tr>
<tr>
<td>00</td>
<td>Factors contributing to release, other.</td>
</tr>
<tr>
<td>UU</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

### Factors Affecting Mitigation - Section L

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Site Factors</td>
</tr>
<tr>
<td>11</td>
<td>Released into water table.</td>
</tr>
<tr>
<td>12</td>
<td>Released into sewer system.</td>
</tr>
<tr>
<td>13</td>
<td>Released into wildland/wetland area.</td>
</tr>
<tr>
<td>14</td>
<td>Released in residential area.</td>
</tr>
<tr>
<td>15</td>
<td>Released in occupied building.</td>
</tr>
<tr>
<td>16</td>
<td>Air release in confined area.</td>
</tr>
<tr>
<td>17</td>
<td>Released, slick on waterway.</td>
</tr>
<tr>
<td>18</td>
<td>Released on major roadway.</td>
</tr>
<tr>
<td>10</td>
<td>Site factors, other.</td>
</tr>
<tr>
<td>2</td>
<td>Release Factors</td>
</tr>
<tr>
<td>21</td>
<td>Release of extremely dangerous agent.</td>
</tr>
<tr>
<td>22</td>
<td>Threatened release of extremely dangerous agent.</td>
</tr>
<tr>
<td>23</td>
<td>Combination of release and fire impeded mitigation.</td>
</tr>
<tr>
<td>24</td>
<td>Multiple chemicals released, unknown effects.</td>
</tr>
<tr>
<td>25</td>
<td>Release of unidentified chemicals, unknown effects.</td>
</tr>
<tr>
<td>20</td>
<td>Release factors, other.</td>
</tr>
<tr>
<td>3</td>
<td>Impediment or Delay Factors</td>
</tr>
<tr>
<td>31</td>
<td>Access to release area.</td>
</tr>
<tr>
<td>32</td>
<td>HazMat apparatus unavailable.</td>
</tr>
<tr>
<td>33</td>
<td>HazMat apparatus failure.</td>
</tr>
<tr>
<td>34</td>
<td>Traffic delay.</td>
</tr>
<tr>
<td>35</td>
<td>Trouble finding location.</td>
</tr>
<tr>
<td>36</td>
<td>Communications delay.</td>
</tr>
<tr>
<td>37</td>
<td>HazMat-trained crew unavailable or delayed.</td>
</tr>
<tr>
<td>30</td>
<td>Impediment or delay factors, other.</td>
</tr>
<tr>
<td>4</td>
<td>Natural Conditions</td>
</tr>
<tr>
<td>41</td>
<td>High wind.</td>
</tr>
<tr>
<td>42</td>
<td>Storm.</td>
</tr>
<tr>
<td>43</td>
<td>High water, including floods.</td>
</tr>
<tr>
<td>44</td>
<td>Earthquake.</td>
</tr>
</tbody>
</table>
Factors Affecting Mitigation - Section L (continued)

45 Extreme high temperature.
46 Extreme low temperature.
47 Ice or snow conditions.
48 Lightning.
49 Animal.
40 Natural conditions, other.
00 Factors affecting mitigation, other.
NN None.

Equipment Involved in Release - Section M
Please Note:
The code set table used for this data element is the same set that is used for Equipment Involved In Ignition, section F1 in the Fire Module. Please refer to page 177 for the codes listed for that data element.

Mobile Property Type - Section N
Please Note:
The code set table used for this data element is the same set that is used for Mobile Property Type, section H2 in the Fire Module. Please refer to page 182 for the codes listed for that data element.

Mobile Property Make - Section N
Please Note:
The code set table used for this data element is the same set that is used for Mobile Property Make, section H2 in the Fire Module. Please refer to page 183 for the codes listed for that data element.

HazMat Disposition - Section O
1 Completed by fire service only.
2 Completed with fire service present.
3 Released to local agency.
4 Released to county agency.
5 Released to state agency.
6 Released to federal agency.
7 Released to private agency.
8 Released to property owner or manager.
# Wildland Module Data Dictionary

## Subsection

<table>
<thead>
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<th>Description</th>
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<tbody>
<tr>
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<tr>
<td>NENW</td>
<td>Northeast by Northwest</td>
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<tr>
<td>NESE</td>
<td>Northeast by Southeast</td>
</tr>
<tr>
<td>NESW</td>
<td>Northeast by Southwest</td>
</tr>
<tr>
<td>NWNW</td>
<td>Northwest by Northwest</td>
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<tr>
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<td>Northwest by Northeast</td>
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<tr>
<td>NWSE</td>
<td>Northwest by Southeast</td>
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## Meridian - Section B

<table>
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<tr>
<td>01</td>
<td>First Principal</td>
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<tr>
<td>02</td>
<td>Second Principal</td>
</tr>
<tr>
<td>03</td>
<td>Third Principal</td>
</tr>
<tr>
<td>04</td>
<td>Fourth Principal</td>
</tr>
<tr>
<td>05</td>
<td>Fifth Principal</td>
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<tr>
<td>06</td>
<td>Sixth Principal</td>
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<tr>
<td>07</td>
<td>Black Hills</td>
</tr>
<tr>
<td>08</td>
<td>Boise</td>
</tr>
<tr>
<td>09</td>
<td>Chickasaw</td>
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<tr>
<td>10</td>
<td>Choctaw</td>
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<tr>
<td>11</td>
<td>Cimarron</td>
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<td>12</td>
<td>Copper River</td>
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<tr>
<td>13</td>
<td>Fairbanks</td>
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<tr>
<td>14</td>
<td>Gila and Salt River</td>
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<td>15</td>
<td>Humboldt</td>
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<tr>
<td>16</td>
<td>Huntsville</td>
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<td>17</td>
<td>Indian</td>
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<td>18</td>
<td>Louisiana</td>
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<td>19</td>
<td>Michigan</td>
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<td>20</td>
<td>Principal</td>
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<td>21</td>
<td>Mt. Diablo</td>
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<td>22</td>
<td>Navajo</td>
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<td>23</td>
<td>New Mexico</td>
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<td>24</td>
<td>St. Helena</td>
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<td>25</td>
<td>St. Stephens</td>
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<td>Salt Lake</td>
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<td>San Bernardino</td>
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<td>Seward</td>
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<td>Tallahassee</td>
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<td>Willamette</td>
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<td>34</td>
<td>Wind River</td>
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<td>35</td>
<td>Ohio</td>
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<td>36</td>
<td>Great Miami River</td>
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<td>37</td>
<td>Muskingum River</td>
</tr>
<tr>
<td>38</td>
<td>Ohio River</td>
</tr>
<tr>
<td>39</td>
<td>First Scioto River</td>
</tr>
<tr>
<td>40</td>
<td>Second Scioto River</td>
</tr>
<tr>
<td>41</td>
<td>Third Scioto River</td>
</tr>
<tr>
<td>42</td>
<td>Ellicotts Line</td>
</tr>
<tr>
<td>43</td>
<td>12 Mile Square</td>
</tr>
<tr>
<td>44</td>
<td>Kateel River</td>
</tr>
<tr>
<td>45</td>
<td>Umiat</td>
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<tr>
<td>UU</td>
<td>Undetermined</td>
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</tbody>
</table>

## Area Type - Section C

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rural, including farms &gt;50 acres</td>
</tr>
<tr>
<td>2</td>
<td>Urban, heavily populated areas</td>
</tr>
<tr>
<td>3</td>
<td>Rural/urban or suburban</td>
</tr>
<tr>
<td>4</td>
<td>Urban/wildland interface area</td>
</tr>
</tbody>
</table>

## Wildland Fire Cause - Section D1

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Natural source</td>
</tr>
<tr>
<td>2</td>
<td>Equipment</td>
</tr>
<tr>
<td>3</td>
<td>Smoking</td>
</tr>
<tr>
<td>4</td>
<td>Open/outdoor fire</td>
</tr>
<tr>
<td>5</td>
<td>Debris, vegetation burn</td>
</tr>
<tr>
<td>6</td>
<td>Structure (exposure)</td>
</tr>
<tr>
<td>7</td>
<td>Incendiary</td>
</tr>
<tr>
<td>8</td>
<td>Misuse of fire</td>
</tr>
<tr>
<td>0</td>
<td>Other cause</td>
</tr>
<tr>
<td>UU</td>
<td>Undetermined</td>
</tr>
</tbody>
</table>
Human Factors Contributing to Ignition - Section D
Please Note:
The code set table used for this data element is the same set that is used for Human Factors Contributing to Ignition, section E3 in the Fire Module. Please refer to page 177 for the codes listed for that data element.

Factors Contributing to Ignition - Section D
Please Note:
The code set table used for this data element is the same set that is used for Factors Contributing to Ignition, section E2 in the Fire Module. Please refer to page 176 for the codes listed for that data element.

Fire Suppression Factors - Section D
Please Note:
The code set table used for this data element is the same set that is used for Fire Suppression Factors, section G in the Fire Module. Please refer to page 181 for the codes listed for that data element.

Heat Source - Section E
Please Note:
The code set table used for this data element is the same set that is used for Heat Source, section D2 in the Fire Module. Please refer to page 173 for the codes listed for that data element.

Mobile Property Type - Section F
Please Note:
The code set table used for this data element is the same set that is used for Mobile Property Type, section H2 in the Fire Module. Please refer to page 182 for the codes listed for that data element.

Equipment Involved in Ignition - Section G
Please Note:
The code set table used for this data element is the same set that is used for Equipment Involved in Ignition, section F1 in the Fire Module. Please refer to page 177 for the codes listed for that data element.

Weather Type - Section H
10 Clear, less than 1/10 cloud cover
11 Scattered clouds, 1/10 to 5/10 cloud cover
12 Broken clouds, 6/10 to 9/10 cloud cover
13 Overcast, over 9/10 cloud cover
14 Foggy
15 Drizzle or mist
16 Rain
17 Snow or sleet
18 Shower
19 Thunderstorm in progress
00 Other weather type

Wind Direction - Section H
1 North
2 Northeast
3 East
4 Southeast
5 South
6 Southwest
7 West
8 Northwest
9 Shifting winds
N None/Calm
U Undetermined

Fire Danger Rating - Section H
1 Low fire danger
2 Moderate fire danger
3 High fire danger
4 Very high fire danger
5 Extreme fire danger
U Undetermined

Property Management - Section J
Private
1 Tax paying
2 Non-tax paying
Public
3 City, town, village or other locality
4 County or parish
5 State or province
6 Federal
7 Foreign
8 Military
0 Other
U Undetermined
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<td>ALRUP</td>
<td>USDI National Park Service (Russell Cave NM)</td>
</tr>
<tr>
<td>ARARP</td>
<td>USDI National Park Service (Arkansas Post NM)</td>
</tr>
<tr>
<td>ARBUP</td>
<td>USDI National Park Service (Buffalo National River)</td>
</tr>
<tr>
<td>ARFSP</td>
<td>USDI National Park Service (Ft. Smith NHS)</td>
</tr>
<tr>
<td>ARHO</td>
<td>USDI National Park Service (Hot Springs NP)</td>
</tr>
<tr>
<td>ARSEP</td>
<td>USDI National Park Service (Pea Ridge NMP)</td>
</tr>
<tr>
<td>DCAN</td>
<td>USDI National Park Service (Amietan National Battlefield)</td>
</tr>
<tr>
<td>DCAPP</td>
<td>USDI National Park Service (Appalachian NIST)</td>
</tr>
<tr>
<td>DCCAP</td>
<td>USDI National Park Service (Catoctin Mountain Park)</td>
</tr>
<tr>
<td>DCCDP</td>
<td>USDI National Park Service (Clara Barton Park)</td>
</tr>
<tr>
<td>DCCOP</td>
<td>USDI National Park Service (Chesapeake &amp; Ohio Canal NHP)</td>
</tr>
<tr>
<td>DCFWP</td>
<td>USDI National Park Service (Fort Washington Park)</td>
</tr>
<tr>
<td>DCGRP</td>
<td>USDI National Park Service (Greenbelt Park)</td>
</tr>
<tr>
<td>DCHFP</td>
<td>USDI National Park Service (Harpers Ferry NHP)</td>
</tr>
<tr>
<td>DCNMP</td>
<td>USDI National Park Service (Monocacy NB)</td>
</tr>
<tr>
<td>FLBCP</td>
<td>USDI National Park Service (Big Cypress NP)</td>
</tr>
<tr>
<td>FLBIP</td>
<td>USDI National Park Service (Biscayne NP)</td>
</tr>
<tr>
<td>FLCAP</td>
<td>USDI National Park Service (Canaveral NS)</td>
</tr>
<tr>
<td>FLCDP</td>
<td>USDI National Park Service (Castillo De San Marcos NM)</td>
</tr>
<tr>
<td>FLNPN</td>
<td>USDI National Park Service (DeSoto NM)</td>
</tr>
<tr>
<td>FLDTP</td>
<td>USDI National Park Service (Dry Tortugas NP)</td>
</tr>
<tr>
<td>FLEVP</td>
<td>USDI National Park Service (Everglades NPS)</td>
</tr>
<tr>
<td>FLECP</td>
<td>USDI National Park Service (Ft. Caroline NM)</td>
</tr>
</tbody>
</table>
**Code** | **Agency - Wildland**
--- | ---
VICHP | USDI National Park Service (Christiansted NHS)
VISRP | USDI National Park Service (Salt River NHP & Ecological Preserve)
VIVIP | USDI National Park Service (Virgin Islands NP)

**NFDRS Fuel Model at Origin - Section K**

01 A: Annual Grasses.
02 B: Mature brush [6 ft. +]
03 C: Open pine with grass
04 D: Southern rough
05 E: Hardwood litter
06 F: Intermountain west brush
07 G: West Coast conifers; close, heavy down materials
08 H: Short needle conifers; normal down woody materials
09 I: Heavy slash, clear-cut conifers greater than 25 tons per area
10 J: Medium slash, heavily thinned conifers (less than 25 tons per acre)
11 K: Light slash (less than 15 tons per acre)
12 L: Perennial grasses
14 N: Saw grass, marsh needle-like grass
15 O: High pocosin
16 P: Southern long-needle pine
17 Q: Alaska black spruce
18 R: Hardwood litter (summer)
19 S: Tundra
20 T: Sagebrush with grass
21 U: Western long-leaf pine
UU Undefined

**Person Responsible for Fire - Section L.1**

1 Identified person caused fire
2 Unknown person caused fire
3 Fire not caused by person

**Gender - Wildland Module, Section L.2**

Please Note:
The code set table used for this data element is the same set that is used for Gender, section B in the Civilian Fire Casualty Module. Please refer to page 187 for the codes listed for that data element.

**Activity of Person - Section L.4**

01 Logging/timber harvest
02 Management activities
03 Construction/maintenance
04 Social gathering
05 Hunting
06 Fishing
07 Other recreation
08 Camping
09 Other permitted harvest
10 Picnicking
11 Non-permitted harvest
12 Harvest of Illegal material
13 Religious or ceremonial activity
14 Oil/gas production
15 Military operations
16 Subsistence
17 Mining
18 Livestock grazing
19 Target practice
20 Blasting
21 Fireworks use
00 Human activity, other

**Type of Right of Way - Section M**

919 Dump, sanitary landfill
921 Bridge, trestle
922 Tunnel
926 Outbuilding, excluding garage
931 Open land, field
935 Campsite with utilities
936 Vacant lot
938 Graded and cared for plots of land
940 Water area
951 Railroad right-of-way
952 Railroad yard
960 Street, other
961 Highway or divided highway
962 Residential street, road or residential driveway
963 Street or road in commercial area
965 Vehicle parking area
972 Aircraft runway
973 Aircraft taxiway
974 Aircraft loading area
981 Construction site
982 Oil, gas field
983 Pipeline, power line or other utility right-a-way
### Type of Right of Way - Section M (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>984</td>
<td>Industrial plant yard, area</td>
</tr>
<tr>
<td>000</td>
<td>Type of right away, other</td>
</tr>
<tr>
<td>UUU</td>
<td>Undetermined</td>
</tr>
<tr>
<td>NNN</td>
<td>None</td>
</tr>
</tbody>
</table>

### Relative Position on Slope - Section N

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Valley Bottom</td>
</tr>
<tr>
<td>1</td>
<td>Lower Slope</td>
</tr>
<tr>
<td>2</td>
<td>Mid Slope</td>
</tr>
<tr>
<td>3</td>
<td>Upper Slope</td>
</tr>
<tr>
<td>4</td>
<td>Ridge Top</td>
</tr>
</tbody>
</table>

### Aspect - Section N

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Flat/None</td>
</tr>
<tr>
<td>1</td>
<td>Northeast</td>
</tr>
<tr>
<td>2</td>
<td>East</td>
</tr>
<tr>
<td>3</td>
<td>Southeast</td>
</tr>
<tr>
<td>4</td>
<td>South</td>
</tr>
<tr>
<td>5</td>
<td>Southwest</td>
</tr>
<tr>
<td>6</td>
<td>West</td>
</tr>
<tr>
<td>7</td>
<td>Northwest</td>
</tr>
<tr>
<td>8</td>
<td>North</td>
</tr>
</tbody>
</table>
Apparatus or Resource Module Data Dictionary

**Apparatus or Resources - Section B**

<table>
<thead>
<tr>
<th>Section</th>
<th>Category</th>
<th>Subcategory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ground Fire Suppression</td>
<td>10 Ground fire suppression, other.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 Engine.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 Truck or aerial.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13 Quint.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14 Tanker &amp; pumper combination.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16 Brush truck.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17 ARFF (aircraft rescue &amp; firefighting).</td>
</tr>
<tr>
<td>2</td>
<td>Heavy Ground Equipment</td>
<td>20 Heavy ground equipment, other.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21 Dozer or plow.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22 Tractor.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 Tanker or tender.</td>
</tr>
<tr>
<td>4</td>
<td>Aircraft</td>
<td>40 Aircraft, other.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>41 Aircraft, fixed-wing tanker.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>42 Helitanker.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>43 Helicopter.</td>
</tr>
<tr>
<td>5</td>
<td>Marine Equipment</td>
<td>50 Marine equipment, other.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>51 Fire boat with pump.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>52 Boat, no pump.</td>
</tr>
<tr>
<td>6</td>
<td>Support Equipment</td>
<td>60 Support apparatus, other.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>61 Breathing apparatus support.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>62 Light and air unit.</td>
</tr>
<tr>
<td>7</td>
<td>Medical &amp; Rescue Unit</td>
<td>70 Medical &amp; rescue unit, other.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>71 Rescue unit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>72 Urban search &amp; rescue unit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>73 High-angle rescue unit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>75 BLS unit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>76 ALS unit.</td>
</tr>
<tr>
<td>9</td>
<td>Other</td>
<td>91 Mobile command post.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>92 Chief officer car.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>93 HazMat unit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>94 Type I hand crew.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>95 Type II hand crew.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>99 Privately owned vehicle.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>00 Other apparatus/resource.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NN None.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>UU Undetermined.</td>
</tr>
</tbody>
</table>

**Apparatus Use - Section B**

<table>
<thead>
<tr>
<th>Section</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Suppression.</td>
</tr>
<tr>
<td>2</td>
<td>EMS.</td>
</tr>
<tr>
<td>0</td>
<td>Other.</td>
</tr>
</tbody>
</table>
Personnel Module Data Dictionary

Apparatus or Resource Type - Section B

Please Note:
The code set table used for this data element is the same set that is used for Apparatus or Resource Type, section B in the Apparatus/Resources Module. Please refer to page 251 for the codes listed for that data element.

Apparatus Use - Section B

Please Note:
The code set table used for this data element is the same set that is used for Apparatus or Resource Type, section B in the Apparatus/Resources Module. Please refer to page 251 for the codes listed for that data element.

Actions Taken - Section B

Please Note:
The code set table used for this data element is the same set that is used for Actions Taken, section F in the Basic Module. Please refer to page 166 for the codes listed for that data element.
### Arson Module Data Dictionary

#### Case Status - Section C

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Investigation open</td>
</tr>
<tr>
<td>2</td>
<td>Investigation closed</td>
</tr>
<tr>
<td>3</td>
<td>Investigation inactive</td>
</tr>
<tr>
<td>4</td>
<td>Investigation closed with arrest</td>
</tr>
<tr>
<td>5</td>
<td>Closed with exceptional clearance</td>
</tr>
</tbody>
</table>

#### Availability of Material First Ignited - Section D

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Transported to scene</td>
</tr>
<tr>
<td>2</td>
<td>Available at scene</td>
</tr>
<tr>
<td>U</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

#### Suspected Motivation Factors - Section E

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Extortion</td>
</tr>
<tr>
<td>12</td>
<td>Labor unrest</td>
</tr>
<tr>
<td>13</td>
<td>Insurance fraud</td>
</tr>
<tr>
<td>14</td>
<td>Intimidation</td>
</tr>
<tr>
<td>15</td>
<td>Void contract/lease</td>
</tr>
<tr>
<td>21</td>
<td>Personal</td>
</tr>
<tr>
<td>22</td>
<td>Hate crime</td>
</tr>
<tr>
<td>23</td>
<td>Institutional</td>
</tr>
<tr>
<td>24</td>
<td>Societal</td>
</tr>
<tr>
<td>31</td>
<td>Protest</td>
</tr>
<tr>
<td>32</td>
<td>Civil unrest</td>
</tr>
<tr>
<td>41</td>
<td>Fireplay/curiosity</td>
</tr>
<tr>
<td>42</td>
<td>Vanity/recognition</td>
</tr>
<tr>
<td>43</td>
<td>Thrills</td>
</tr>
<tr>
<td>44</td>
<td>Attention/sympathy</td>
</tr>
<tr>
<td>45</td>
<td>Sexual excitement</td>
</tr>
<tr>
<td>51</td>
<td>Homicide</td>
</tr>
<tr>
<td>52</td>
<td>Suicide</td>
</tr>
<tr>
<td>53</td>
<td>Domestic violence</td>
</tr>
<tr>
<td>54</td>
<td>Burglary</td>
</tr>
<tr>
<td>61</td>
<td>Homicide concealment</td>
</tr>
<tr>
<td>62</td>
<td>Burglary concealment</td>
</tr>
<tr>
<td>63</td>
<td>Auto theft concealment</td>
</tr>
<tr>
<td>64</td>
<td>Destroy records/evidence</td>
</tr>
<tr>
<td>00</td>
<td>Other suspected motivation</td>
</tr>
<tr>
<td>UU</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

#### Apparent Group Involvement - Section F

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Terrorist group</td>
</tr>
<tr>
<td>2</td>
<td>Gang</td>
</tr>
<tr>
<td>3</td>
<td>Anti-government group</td>
</tr>
<tr>
<td>4</td>
<td>Outlaw motorcycle organization</td>
</tr>
<tr>
<td>5</td>
<td>Organized crime</td>
</tr>
<tr>
<td>6</td>
<td>Racial/ethnic hate group</td>
</tr>
<tr>
<td>7</td>
<td>Religious hate group</td>
</tr>
<tr>
<td>8</td>
<td>Sexual preference hate group</td>
</tr>
<tr>
<td>N</td>
<td>No group involvement, acted alone</td>
</tr>
<tr>
<td>0</td>
<td>Other group</td>
</tr>
<tr>
<td>U</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

#### Entry Method - Section G1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Door – open or unlocked</td>
</tr>
<tr>
<td>12</td>
<td>Door – forced or broken</td>
</tr>
<tr>
<td>13</td>
<td>Window – open or unlocked</td>
</tr>
<tr>
<td>14</td>
<td>Window – forced or broken</td>
</tr>
<tr>
<td>15</td>
<td>Gate – open or unlocked</td>
</tr>
<tr>
<td>16</td>
<td>Gate – forced or broken</td>
</tr>
<tr>
<td>17</td>
<td>Locks – pried</td>
</tr>
<tr>
<td>18</td>
<td>Locks – cut</td>
</tr>
<tr>
<td>19</td>
<td>Floor entry</td>
</tr>
<tr>
<td>21</td>
<td>Vent</td>
</tr>
<tr>
<td>22</td>
<td>Attic/roof</td>
</tr>
<tr>
<td>23</td>
<td>Key</td>
</tr>
<tr>
<td>24</td>
<td>Help from inside</td>
</tr>
<tr>
<td>25</td>
<td>Wall</td>
</tr>
<tr>
<td>26</td>
<td>Crawl space</td>
</tr>
<tr>
<td>27</td>
<td>Hid in/on premises</td>
</tr>
<tr>
<td>00</td>
<td>Other entry method</td>
</tr>
<tr>
<td>UU</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

#### Extent of Fire Involvement on Arrival - Section G2

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No flame or smoke showing</td>
</tr>
<tr>
<td>2</td>
<td>Smoke only showing</td>
</tr>
<tr>
<td>3</td>
<td>Flame and smoke showing</td>
</tr>
<tr>
<td>4</td>
<td>Fire through roof</td>
</tr>
<tr>
<td>5</td>
<td>Fully involved</td>
</tr>
</tbody>
</table>
**Data Dictionary - Arson Module**

### Incendiary Devices - Container - Section H

1. Bottle, glass.
2. Bottle, plastic.
4. Pressurized container.
5. Can (not gasoline or fuel can).
6. Gasoline or fuel can.
7. Box.
8. Other container.
9. No container.
10. Unknown.

### Incendiary Devices - Ignition/Delay Device - Section H

1. Wick or fuse.
2. Candle.
3. Cigarette and matchbook.
4. Electronic component.
5. Mechanical device.
6. Remote control.
7. Road flare/fuse.
8. Chemical component.
10. Open flame source.
11. Other delay device.
12. No device.
13. Unknown.

### Incendiary Devices - Fuel - Section H

1. Ordinary combustibles.
2. Flammable gas.
3. Ignitable liquid.
4. Ignitable solid.
5. Pyrotechnic material.
6. Explosive material.
7. Other material.
8. None.

### Other Investigative Information - Section I

1. Code violations.
2. Structure for sale.
4. Other crimes involved.
5. Illicit drug activity.
6. Change in insurance.
8. Criminal/civil actions pending.

### Property Ownership - Section J

1. Private.
2. City, town, village, local.
3. County or parish.
4. State or province.
5. Federal.
6. Foreign.
7. Military.
8. Other.

### Initial Observations - Section K

1. Windows ajar.
2. Doors ajar.
3. Doors locked.
4. Doors unlocked.
5. Fire department forced entry.
6. Entry forced prior to FD arrival.
7. Security system activated.
8. Security system was present but not activated.

### Laboratory Used - Section L

1. Local.
2. State.
3. ATF.
4. FBI.
5. Other federal laboratory.
6. Private.
7. None.

### Gender - Section M1

1. Male
2. Female.

### Race - Section M4

1. White.
2. Black or African American.
3. American Indian or Alaska native.
### Race - Section M1 (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Native Hawaiian or other Pacific Islander.</td>
</tr>
<tr>
<td>0</td>
<td>Other, includes multi-racial.</td>
</tr>
<tr>
<td>U</td>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

### Ethnicity - Section M5

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hispanic.</td>
</tr>
<tr>
<td>0</td>
<td>Other.</td>
</tr>
</tbody>
</table>

### Family Type - Section M6

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Single-parent family.</td>
</tr>
<tr>
<td>2</td>
<td>Foster parent(s).</td>
</tr>
<tr>
<td>3</td>
<td>Two-parent family.</td>
</tr>
<tr>
<td>4</td>
<td>Extended family, including multigenerational.</td>
</tr>
<tr>
<td>N</td>
<td>No family unit.</td>
</tr>
<tr>
<td>0</td>
<td>Other family type.</td>
</tr>
<tr>
<td>U</td>
<td>Unknown.</td>
</tr>
</tbody>
</table>

### Motivation/Risk Factors - Section M7

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mild curiosity about fire.</td>
</tr>
<tr>
<td>2</td>
<td>Moderate curiosity about fire.</td>
</tr>
<tr>
<td>3</td>
<td>Extreme curiosity about fire.</td>
</tr>
<tr>
<td>4</td>
<td>Diagnosed (or suspected) ADD/ADHD.</td>
</tr>
<tr>
<td>5</td>
<td>History of trouble outside school.</td>
</tr>
<tr>
<td>6</td>
<td>History of stealing or shoplifting.</td>
</tr>
<tr>
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<td>History of physically assaulting others.</td>
</tr>
<tr>
<td>8</td>
<td>History of fireplay or firesetting.</td>
</tr>
<tr>
<td>9</td>
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<tr>
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### Disposition of Person Under 18 - Section M8

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<tr>
<td>2</td>
<td>Released to parent or guardian.</td>
</tr>
<tr>
<td>3</td>
<td>Referred to other authority.</td>
</tr>
<tr>
<td>4</td>
<td>Referred to treatment/counseling program.</td>
</tr>
<tr>
<td>5</td>
<td>Arrested, charged as adult.</td>
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<td>Referred to firesetter intervention program.</td>
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Conversion Tables for NFIRS 4.1 to 5.0

This section is provided to assist in the transition from NFIRS 4.1 to NFIRS 5.0. Users of data that has been converted are cautioned to review both the old data description and the new data description(s) as there may be some slight variations and some assumptions had to be made.

General guidelines

All insufficient information “0” have been changed to the appropriate “other” classification.

Any reference to classifications in another data element are to the NFIRS 4.1 classifications if in the NFIRS 4.1 column and to the NFIRS 5.0 if in the 5.0 column.

Abbreviations used in conversion tables are as follows:

- MPT = Mobile Property Type.
- FPU = Fixed Property Use.
- AFO = Area of Origin.
- EII = Equipment Involved in Ignition.
- TMI = Type of Material Ignited.
- SS = Structure Status.

NFIRS 4.1 Carryover Elements

Note that the following elements will be carried in the NFIRS 5.0 system as part of the converted 4.1 records. These elements are not collected in NFIRS 5.0 and are carried in the converted 4.1 records for legacy purposes only:

- Method of Alarm from Public.
- Method of Extinguishment.
- Construction Type.
- Extent of Smoke Damage.
- Type of Material Generating Most Smoke.
- Form of Material Generating Most Smoke.
- Avenue of Smoke Travel.
Basic, Fire, and Structure Modules

TABLE 3-40. Type of Situation Found Conversion (Sheet 1 of 2)

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<th>NFIRS 5.0 Incident Type</th>
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<td>11 and MPT not blank, 00 or 08</td>
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<td>121 and Structure Fire Module Block 11 Structure Type = 2</td>
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<tr>
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<tr>
<td>12 and Complex = 41 or 42</td>
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### TABLE 3-40. Type of Situation Found Conversion (Sheet 2 of 2)

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### TABLE 3-41. Type of Action Taken Conversion (Sheet 1 of 2)

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### TABLE 3-41. Type of Action Taken Conversion (Sheet 2 of 2)

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### TABLE 3-42. Mutual Aid Conversion

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### TABLE 3-43. Fixed Property Use Conversion (Sheet 1 of 4)

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### TABLE 3-43. Fixed Property Use Conversion (Sheet 2 of 4)

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## TABLE 3-43. Fixed Property Use Conversion  (Sheet 3 of 4)

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### TABLE 3-43. Fixed Property Use Conversion (Sheet 4 of 4)

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### TABLE 3-44. Fixed Property Use Residential Conversion (Sheet 1 of 2)

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*3-6 units shown as 4 units  
7-20 units shown as 12 units  
over 20 units shown as 21 units  

**3-8 roomers shown as 5 units  
9-15 roomers shown as 10 units  

*** less than 20 units shown as 10  
20 to 99 units shown as 50 units  
100 or more units shown as 101 units
### TABLE 3-44. Fixed Property Use Residential Conversion  (Sheet 2 of 2)

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7-20 units shown as 12 units
over 20 units shown as 21 units

**3-8 roomers shown as 5 units
9-15 roomers shown as 10 units

*** less than 20 units shown as 10
20 to 99 units shown as 50 units
100 or more units shown as 101 units

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### TABLE 3-45. Fixed Property Use Conversion On-Site Materials  (Sheet 1 of 11)

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# TABLE 3-46. Ignition Factor Conversion (Sheet 2 of 2)

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# TABLE 3-47. Complex Conversion (Sheet 1 of 2)

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### TABLE 3-47. Complex Conversion (Sheet 2 of 2)

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Note: This same table can be used for converting Hazardous materials transportation type. 73, 74, and 75 are valid classifications in the hazmat table and will directly convert to the same number.

### TABLE 3-48. Mobile Property Type Conversion

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*All Classifications convert directly except as noted below.*
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### TABLE 3-50. Equipment Involved in Ignition Conversion (Sheet 1 of 3)

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### TABLE 3-50. Equipment Involved in Ignition Conversion (Sheet 2 of 3)

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### TABLE 3-50. Equipment Involved in Ignition Conversion (Sheet 3 of 3)

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### TABLE 3-51. Form of Heat of Ignition Conversion (Sheet 1 of 3)

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### TABLE 3-51. Form of Heat of Ignition Conversion (Sheet 2 of 3)

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### TABLE 3-51. Form of Heat of Ignition Conversion  (Sheet 3 of 3)

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*Titled as “Heat Source” in NFIRS 5.0*

### TABLE 3-52. Type of Material Ignited Conversion  (Sheet 1 of 2)

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### TABLE 3-52. Type of Material Ignited Conversion (Sheet 2 of 2)

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* Need to be cautious that we do not overwrite this with a conversion from Form of Material that is inconsistent

### TABLE 3-53. Form of Material Ignited Conversion (Sheet 1 of 2)

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### TABLE 3-53. Form of Material Ignited Conversion (Sheet 2 of 2)

All classifications convert directly except as noted below

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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**L1**: Presence of Detectors  
**L2**: Detector Type  
**L3**: Detector Power Supply  
**L4**: Detector Operation  
**L5**: Detector Effectiveness  
**L6**: Detector Failure Reason

### TABLE 3-55. Extinguishing Systems Conversion

<table>
<thead>
<tr>
<th>Sprinkler Performance</th>
<th>NFIRS 4.1</th>
<th>M1 Block</th>
<th>M2 Block</th>
<th>M3 Block</th>
<th>M4 Block</th>
<th>M5 Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Y</td>
<td>U</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Y</td>
<td>U</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Y</td>
<td>U</td>
<td>3</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Y</td>
<td>U</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**M1**: Presence of Automatic Extinguishing System  
**M2**: Type of Automatic Extinguishing System  
**M3**: Operation of Automatic Extinguishing System  
**M4**: Number of Sprinkler Heads opened  
**M5**: Reason system not effective
### TABLE 3-56. Number of Stories Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Titled as “Building Height” in NFIRS 5.0</strong></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3*</td>
</tr>
<tr>
<td>4</td>
<td>5*</td>
</tr>
<tr>
<td>5</td>
<td>10*</td>
</tr>
<tr>
<td>6</td>
<td>18*</td>
</tr>
<tr>
<td>7</td>
<td>35*</td>
</tr>
<tr>
<td>8</td>
<td>50*</td>
</tr>
<tr>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

* Average for conversion

### TABLE 3-57. Extent of Fire Damage Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Titled as “Fire Spread” in NFIRS 5.0</strong></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
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<td>5</td>
<td>3</td>
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<tr>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>5</td>
</tr>
<tr>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

### Civilian Casualty Module

#### TABLE 3-58. Affiliation Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>U</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

#### TABLE 3-59. Severity Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 group into moderate category</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>
Sex. Converts directly from NFIRS 4.1 to NFIRS 5.0.

**Familiarity with Structure.** Does not convert - Not used in NFIRS 5.0.

### TABLE 3-60. Location at Ignition Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M1</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>U</td>
</tr>
</tbody>
</table>

* The Level of Fire Origin conversion table is used to determine the Story at Start and Story Where Injury Occurred. When the 4.1 Location at Ignition is 1 the Level of Fire Origin conversion table is used to determine the Story at Start and Story Where Injury Occurred. When the Location At Ignition is 2 or 3, the Level of Fire Origin table is used to determine only the Story at Start.

M1: Location at Time of Incident
M2: General Location at Time of Injury
M3: Story at Start of Incident
M4: Story Where Injury Occurred
M5: Specific Location at Time of Injury

### TABLE 3-61. Level of Fire Origin Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1 Level of Fire Origin</th>
<th>NFIRS 5.0 Story</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>001</td>
</tr>
<tr>
<td>2</td>
<td>002</td>
</tr>
<tr>
<td>3</td>
<td>003</td>
</tr>
<tr>
<td>4</td>
<td>004</td>
</tr>
<tr>
<td>5</td>
<td>006</td>
</tr>
<tr>
<td>6</td>
<td>008</td>
</tr>
<tr>
<td>7</td>
<td>N/A</td>
</tr>
<tr>
<td>8</td>
<td>001 and below grade box checked</td>
</tr>
<tr>
<td>9</td>
<td>-</td>
</tr>
<tr>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>
### TABLE 3-62. Condition Before Injury Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1 Condition Before Injury</th>
<th>NFIRS 5.0 Human Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Data converts to “Human Factors” in NFIRS 5.0</td>
</tr>
<tr>
<td>1</td>
<td>Asleep = True</td>
</tr>
<tr>
<td>2</td>
<td>Physical Disability = True</td>
</tr>
<tr>
<td>3</td>
<td>Impaired by alcohol = True</td>
</tr>
<tr>
<td>4</td>
<td>Impaired by chemical = True</td>
</tr>
<tr>
<td>5</td>
<td>Physically restrained = True</td>
</tr>
<tr>
<td>6</td>
<td>Unattended = True</td>
</tr>
<tr>
<td>7</td>
<td>Unattended = True</td>
</tr>
<tr>
<td>8</td>
<td>Mentally disabled = True</td>
</tr>
<tr>
<td>9</td>
<td>N/A</td>
</tr>
<tr>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### TABLE 3-63. Condition Preventing Escape Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1 Condition Preventing Escape</th>
<th>NFIRS 5.0 Contributing Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Data converts to “Contributing Factors” in NFIRS 5.0</td>
</tr>
<tr>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>2</td>
<td>21</td>
</tr>
<tr>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td>4</td>
<td>15</td>
</tr>
<tr>
<td>5</td>
<td>35</td>
</tr>
<tr>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>7</td>
<td>does not convert</td>
</tr>
<tr>
<td>8</td>
<td>NN</td>
</tr>
<tr>
<td>9</td>
<td>00</td>
</tr>
<tr>
<td>0</td>
<td>UU</td>
</tr>
</tbody>
</table>
### TABLE 3-64. Activity at Time of Injury Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
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<tr>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>U</td>
</tr>
</tbody>
</table>

### TABLE 3-65. Cause of Injury Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
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<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>8</td>
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<tr>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>N</td>
</tr>
<tr>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>U</td>
</tr>
</tbody>
</table>

### TABLE 3-66. Nature of Injury Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nature of Injury</td>
<td>Primary Apparent Symptom</td>
</tr>
<tr>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>01</td>
</tr>
<tr>
<td>4</td>
<td>21</td>
</tr>
<tr>
<td>5</td>
<td>32</td>
</tr>
<tr>
<td>6</td>
<td>UU</td>
</tr>
<tr>
<td>7</td>
<td>96</td>
</tr>
<tr>
<td>8</td>
<td>33</td>
</tr>
<tr>
<td>9</td>
<td>00</td>
</tr>
<tr>
<td>0</td>
<td>UU</td>
</tr>
</tbody>
</table>

*Data converts to “Primary Apparent Symptom” in NFIRS 5.0*
TABLE 3-67. Part of Body Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
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<tr>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>U</td>
</tr>
</tbody>
</table>

TABLE 3-68. Disposition Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>check box = true</td>
</tr>
<tr>
<td>4</td>
<td>check box = true</td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

FireFighter Casualty Module

**Type of Casualty.** Does not convert - Not used in NFIRS 5.0.

TABLE 3-69. Gender Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Converts directly from NFIRS 4.1 to NFIRS 5.0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Blank</td>
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</tr>
</tbody>
</table>
### TABLE 3-70. Case Severity Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1 Severity</th>
<th>NFIRS 5.0 Severity</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1, 2, 3</td>
</tr>
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<td>2</td>
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</tr>
<tr>
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<td>5</td>
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<td>4</td>
<td>6</td>
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<td>7</td>
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<td>8</td>
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</tr>
<tr>
<td>0</td>
<td>U</td>
</tr>
<tr>
<td>Blank</td>
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</tr>
</tbody>
</table>

### TABLE 3-71. Primary Apparent Symptom Conversion  (Sheet 1 of 2)

<table>
<thead>
<tr>
<th>NFIRS 4.1 Primary Apparent Symptom</th>
<th>NFIRS 5.0 Primary Apparent Symptom</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>25</td>
</tr>
<tr>
<td>02</td>
<td>36</td>
</tr>
<tr>
<td>03</td>
<td>IT 10-19 = 01</td>
</tr>
<tr>
<td></td>
<td>IT 40-49 = 02</td>
</tr>
<tr>
<td></td>
<td>else 03</td>
</tr>
<tr>
<td>04</td>
<td>63</td>
</tr>
<tr>
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</tr>
<tr>
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<td>07</td>
<td>12</td>
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<tr>
<td>08</td>
<td>13</td>
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<td>00</td>
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<td>10</td>
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<td>11</td>
<td>41</td>
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<td>22</td>
<td>81</td>
</tr>
<tr>
<td>23</td>
<td>82</td>
</tr>
<tr>
<td>NFIRS 4.1 Primary Apparent Symptom</td>
<td>NFIRS 5.0 Primary Apparent Symptom</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>24</td>
<td>64</td>
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<td>37</td>
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<td>39</td>
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<td>98</td>
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<td>99</td>
<td>00</td>
</tr>
<tr>
<td>00</td>
<td>UU</td>
</tr>
</tbody>
</table>
TABLE 3-72. Primary Part of Body Conversion (Sheet 1 of 2)

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Part of Body</td>
<td>Primary Part of Body</td>
</tr>
</tbody>
</table>

*This data element is being called “Primary Area of Body Injured” in NFIRS 5.0*

| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 10 |
| 14 | 14 |
| 15 | 14 |
| 16 | 13 |
| 17 | 13 |
| 18 | 14 |
| 19 | 10 |
| 20 | 30 |
| 21 | 21 |
| 22 | 23 |
| 23 | 31 |
| 24 | 31 |
| 25 | 32 |
| 26 | 41 |
| 27 | 43 |
| 28 | 42 |
| 29 | 30 |
| 30 | 60 |
| 31 | 61 |
| 32 | 62 |
| 33 | 63 |
| 34 | 64 |
| 35 | 65 |
| 36 | 65 |
| 37 | 65 |
| 39 | 60 |
| 40 | 70 |
| 41 | 71 |
| 42 | 72 |
| 43 | 73 |
| 44 | 74 |
| 45 | 75 |
| 46 | 75 |
| 49 | 70 |
| 50 | 80 |
### TABLE 3-72. Primary Part of Body Conversion (Sheet 2 of 2)

<table>
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### TABLE 3-73. Patient Taken To

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TABLE 3-74. Assignment Conversion

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TABLE 3-75. Number of Responses Conversion

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* Average for conversion only

TABLE 3-76. Physical Condition at Time of Injury Conversion

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Status of Injured Prior to Alarm. Does not convert.
TABLE 3-77. Firefighter Activity Conversion (Sheet 1 of 3)

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*This data element is called “Activity at Time of Injury” in NFIRS 5.0*
### TABLE 3-77. Firefighter Activity Conversion (Sheet 3 of 3)

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### TABLE 3-78. Where Injury/Accident Occurred (Sheet 1 of 2)

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* Stories 2-4 converted to 3
Stories 5-7 converted to 6
Stories or above converted to 8
** -3 is used to indicate below grade for conversion only
### TABLE 3-78. Where Injury/Accident Occurred (Sheet 2 of 2)

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* Stories 2-4 converted to 3
Stories 5-7 converted to 6
Stories or above converted to 8
** -3 is used to indicate below grade for conversion only
### TABLE 3-79. Cause of Firefighter Injury Conversion (Sheet 1 of 4)

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### TABLE 3-79. Cause of Firefighter Injury Conversion (Sheet 2 of 4)

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**TABLE 3-79. Cause of Firefighter Injury Conversion (Sheet 4 of 4)**

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**Medical Care Provided.** Data element not used in NFIRS 5.0.

**TABLE 3-80. Protective Coat Worn Conversion**

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**TABLE 3-81. Problem with Protective Coat**

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**TABLE 3-82. Protective Trousers Worn Conversion**

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Status Of Protective Trousers. Does not convert - Not used in NFIRS 5.0.
### TABLE 3-83. Problem with Protective Trousers Conversion

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### TABLE 3-84. Boots/Shoes being Worn Conversion

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**Status of Boots/Shoes.** Does not convert - Not used in NFIRS 5.0.
### TABLE 3-85. Problems with Boots/Shoes Conversion

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### TABLE 3-86. Helmet being Worn Conversion

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**Status of Helmet.** Does not convert - Not used in NFIRS 5.0.

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### TABLE 3-90. Breathing Apparatus Conversion

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**Status of Breathing Apparatus.** Does not convert - Not used in NFIRS 5.0.
TABLE 3-91. Problem with Breathing Apparatus Conversion

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This data element is called “Equipment Problem” in NFIRS 5.0.
### TABLE 3-92. Gloves being Worn Conversion

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### TABLE 3-93. Problem with Gloves Conversion

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### TABLE 3-94. Special Equipment Conversion (Sheet 1 of 2)

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TABLE 3-94. Special Equipment Conversion (Sheet 2 of 2)

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This data element is called “Equipment Item” in NFIRS 5.0.

Special Equipment Status. Does not convert - Not used in NFIRS 5.0.

TABLE 3-95. Special Equipment Problems Conversion

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This data element is called “Equipment Problem” in NFIRS 5.0.

TABLE 3-96. Special HazMat Response Action (Sheet 1 of 2)

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Note: Up to 2 Actions Taken are reported on the basic module in the Actions Taken fields 2 and 3. No conversion is made to Special HazMat Actions Taken on the HazMat module.
### TABLE 3-96. Special HazMat Response Action (Sheet 2 of 2)

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Note: Up to 2 Actions Taken are reported on the basic module in the Actions Taken fields 2 and 3. No conversion is made to Special HazMat Actions Taken on the HazMat module.

### TABLE 3-97. General Property Use (Sheet 1 of 2)

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### TABLE 3-97. General Property Use (Sheet 2 of 2)

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### TABLE 3-98. Level of Release Conversion (Sheet 1 of 2)

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### TABLE 3-98. Level of Release Conversion (Sheet 2 of 2)

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### TABLE 3-99. Release Factor Conversion (Sheet 1 of 3)

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</tr>
<tr>
<td>55</td>
<td>3</td>
</tr>
<tr>
<td>56</td>
<td>3</td>
</tr>
<tr>
<td>59</td>
<td>3</td>
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<tr>
<td>60</td>
<td>3</td>
</tr>
<tr>
<td>61</td>
<td>3</td>
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<tr>
<td>62</td>
<td>3</td>
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<tr>
<td>64</td>
<td>3</td>
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<td>69</td>
<td>3</td>
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<tr>
<td>70</td>
<td>2</td>
</tr>
<tr>
<td>71</td>
<td>2</td>
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<tr>
<td>72</td>
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</tr>
<tr>
<td>73</td>
<td>2</td>
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<tr>
<td>74</td>
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<tr>
<td>75</td>
<td>2</td>
</tr>
<tr>
<td>76</td>
<td>2</td>
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<tr>
<td>77</td>
<td>2</td>
</tr>
<tr>
<td>78</td>
<td>2</td>
</tr>
<tr>
<td>79</td>
<td>2</td>
</tr>
<tr>
<td>80</td>
<td>4</td>
</tr>
<tr>
<td>81</td>
<td>4</td>
</tr>
<tr>
<td>82</td>
<td>4</td>
</tr>
<tr>
<td>83</td>
<td>4</td>
</tr>
</tbody>
</table>
Type of Weather. Does not convert - Not used in NFIRS 5.0.

Air Temperature. Does not convert - Not used in NFIRS 5.0.

Estimated Number of Chemicals. Does not convert - Not used in NFIRS 5.0.

TABLE 3-99. Release Factor Conversion (Sheet 3 of 3)

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Factor</td>
<td>Cause of Release</td>
</tr>
<tr>
<td>84</td>
<td>4</td>
</tr>
<tr>
<td>85</td>
<td>4</td>
</tr>
<tr>
<td>86</td>
<td>4</td>
</tr>
<tr>
<td>87</td>
<td>4</td>
</tr>
<tr>
<td>88</td>
<td>4</td>
</tr>
<tr>
<td>89</td>
<td>4</td>
</tr>
<tr>
<td>90</td>
<td>U</td>
</tr>
<tr>
<td>91</td>
<td>4</td>
</tr>
<tr>
<td>92</td>
<td>2</td>
</tr>
<tr>
<td>93</td>
<td>2</td>
</tr>
<tr>
<td>94</td>
<td>2</td>
</tr>
<tr>
<td>95</td>
<td>2</td>
</tr>
<tr>
<td>96</td>
<td>2</td>
</tr>
<tr>
<td>97</td>
<td>2</td>
</tr>
<tr>
<td>98</td>
<td>-</td>
</tr>
<tr>
<td>99</td>
<td>U</td>
</tr>
<tr>
<td>00</td>
<td>U</td>
</tr>
</tbody>
</table>

I is the question “If fire or explosion is involved with a release, which occurred first?”

TABLE 3-100. Disposition Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>-</td>
</tr>
<tr>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

Personnel Identifying HazMat. Does not convert - Not used in NFIRS 5.0.
Reference Material. Does not convert - Not used in NFIRS 5.0.

Number of Injuries. Direct convert of numeric field.

Number of Fatalities. Direct convert of numeric field.

### TABLE 3-101. DOT Hazard Class Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>3</td>
<td>30</td>
</tr>
<tr>
<td>4</td>
<td>40</td>
</tr>
<tr>
<td>5</td>
<td>50</td>
</tr>
<tr>
<td>6</td>
<td>60</td>
</tr>
<tr>
<td>7</td>
<td>70</td>
</tr>
<tr>
<td>8</td>
<td>80</td>
</tr>
<tr>
<td>9</td>
<td>90</td>
</tr>
<tr>
<td>0</td>
<td>U</td>
</tr>
</tbody>
</table>

CAS Number. Direct conversion.

Physical State Stored. Does not convert - Not used in NFIRS 5.0.

Extent Of Release. Does not convert - Not used in NFIRS 5.0.

### TABLE 3-102. Physical State Released Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>All classifications convert directly except as noted below</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>U</td>
</tr>
</tbody>
</table>

Quantity Released Units. All classifications convert directly.

### TABLE 3-103. Suspected Environmental Damage Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>All classifications convert directly except as noted below</td>
<td></td>
</tr>
<tr>
<td>This data element is called “Released Into” in NFIRS 5.0.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>U</td>
</tr>
</tbody>
</table>

Container Use. Does not convert - Not used in NFIRS 5.0.

Special Container Feature. Does not convert - Not used in NFIRS 5.0.
TABLE 3-104. Container Type Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>All classifications convert directly except as noted below</td>
<td></td>
</tr>
<tr>
<td>98</td>
<td>NN</td>
</tr>
<tr>
<td>99</td>
<td>00</td>
</tr>
<tr>
<td>00</td>
<td>UU</td>
</tr>
</tbody>
</table>

Container Material. Does not convert - Not used in NFIRS 5.0.

Container Capacity. All classifications convert directly.

Unit of Measure. All classifications convert directly.

TABLE 3-105. Mobile Property Type/Transport Type Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>All classifications convert directly except as noted below</td>
<td></td>
</tr>
<tr>
<td>00</td>
<td>UU</td>
</tr>
<tr>
<td>08</td>
<td>blank</td>
</tr>
<tr>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>19</td>
<td>10</td>
</tr>
<tr>
<td>29</td>
<td>20</td>
</tr>
<tr>
<td>39</td>
<td>30</td>
</tr>
<tr>
<td>49</td>
<td>49, but may include some boats that are not sailboats</td>
</tr>
<tr>
<td>58</td>
<td>50</td>
</tr>
<tr>
<td>59</td>
<td>50</td>
</tr>
<tr>
<td>67</td>
<td>74</td>
</tr>
<tr>
<td>68</td>
<td>75</td>
</tr>
<tr>
<td>69</td>
<td>60</td>
</tr>
<tr>
<td>79</td>
<td>70</td>
</tr>
<tr>
<td>99</td>
<td>90</td>
</tr>
</tbody>
</table>

*73, 74, and 75 are valid classifications in the hazmat table and will directly convert to the same number.

Vehicle Id. Does not convert - Not used in NFIRS 5.0.

ICC/DOT Number. All numbers convert directly.

TABLE 3-106. Equipment Involved in Release Conversion

<table>
<thead>
<tr>
<th>NFIRS 4.1</th>
<th>NFIRS 5.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Except for the codes listed below, all codes convert the same as for the Equipment Involved in Ignition (Table 3-48)</td>
<td></td>
</tr>
<tr>
<td>01</td>
<td>Blank</td>
</tr>
<tr>
<td>02</td>
<td>Blank</td>
</tr>
<tr>
<td>03</td>
<td>Blank</td>
</tr>
</tbody>
</table>
### TABLE 3-106. Equipment Involved in Release Conversion

**NFIRS 4.1** | **NFIRS 5.0**
--- | ---
04 | Blank
05 | Blank
06 | Blank
07 | Blank
08 | Blank
09 | Blank
91 | 311
92 | 500
93 | 200
94 | 251
95 | 300
96 | 300
97 | 300

*Except for the codes listed below, all codes convert the same as for the Equipment Involved in Ignition (Table 3-48)*
NFIRS 5.0 Vendor Software Development Procedures

The United States Fire Administration (USFA) will no longer certify vendor transaction files for the NFIRS 5.0. The USFA will instead maintain a list of fire software vendors that have registered with USFA to obtain NFIRS 5.0 development materials and the vendor validation tool. We will also maintain vendors' readiness status' on the list based on their reports to us on their status.

The new procedure has 5 steps:

1) Vendors will register their company/organization and their software to receive a vendor ID and a software ID. This step is the same as in the previous certification procedure. All transaction files processed at the national level are required to have these two IDs embedded in the transaction file as specified in the design documentation. News, Design Documentation, and Tools for Vendors may be found at the vendor section of the USFA Website.

https://www.nfirs.fema.gov/vendors/

2) Vendors will be requested to develop software using the NFIRS 5.0 design documentation and then test their output transaction files using the validation tools USFA provides for those purposes. NFIRS design documentation and other information may be downloaded from the registration website at:

http://www.nfirs.fema.gov/documentation/design/

3) Vendors are requested to notify USFA when their product development is completed and tested to be compatible with the national NFIRS 5.0 database standard.

4) Vendors who have notified USFA in step 3 above will be marked as "active" vendors on the registered list. This new status will supersede the previous two status categories of "conditionally certified" and "fully certified".

5) Fire Departments and states may use the USFA maintained list of vendors as a resource when shopping for a software product.

Because the USFA will no longer nationally certify vendor's NFIRS 5.0 transaction files formats, it will be extremely important for state agencies, fire departments and vendors to continue monitoring data quality issues.

State agencies are the authority for state reporting compliance. Issues with NFIRS vendor files should be addressed by the fire department, the vendor and the state involved. The USFA will continue to act as a resource for states to identify data problems at the national level.

Vendors should retest their software after software revisions or version changes.

In order to maintain a uniform National reporting standard:

Fire departments should make sure they have the most current version of the vendor software installed.

States and fire departments need to ensure that their vendor's data files remain compatible with the national system.
Query and Reporting Requirements

Reporting Requirements

All database inputs to the standard reports defined below will have definable database filters which can be set by the report user prior to report generation. The filter will consist of predefined field parameters that will allow generation of data subsets based on the values entered before report generation. Field parameters will consist of a range of values or values greater, less than or equal to a designated value. Those parameters that require ranges of values are designated by “(range of)” after the parameter field name. Text field parameters require the ability to do partial searches and the use of wildcard characters. More complex queries involving the use of the Boolean logical “or” statement or combinations of Boolean “and/or” logic will require use of ad hoc query capabilities described at the end of these reporting requirements. Note that not all field parameters may be available for each report depending on the report type. The following is a total list of all NFIRS 5.0 field parameters (subdivided by module):

All Incidents

State.
FDID.
Incident Number (range of).
Exposure Number (range of).
Station (range of).
Incident Location text fields (Wildcard/Partial String).
Location Type.
Location State.
ZIP Code (range of).
Census Tract (range of).
Incident Date Month (range of).
Incident Date Day (range of).
Incident Date Year (range of).
Incident Date Hour/Minute (range of).
Day of Week (calculated, range of).
Incident Type (range of).
Aid Given or Received.
Their FDID.
Their State.
Their Incident Number.
Action Taken #1 (range of).
Action Taken #2 (range of).
Action Taken #3 (range of).
Suppression Resources (range of).
EMS Resources (range of).
Other Resources (range of).
Counts Mutual Aid Resources.
Property $Loss (range of).
Contents $Loss (range of).
Total $Loss (range of).
Fire Service Injuries (range of).
Fire Service Deaths (range of).
Civilian Injuries (range of).
Civilian Deaths (range of).
Detector Alerted Occupants.

Mixed Property Use (range of).
Property Use (range of).
Business Entity Involved Name.
Business Entity Involved Phone Number.
Person Involved Name Prefix.
Person Involved First Name.
Person Involved Middle Initial.
Person Involved Last Name.
Person Involved Address Number.
Person Involved Address Suffix.
Person Involved Address Street Type.
Person Involved Address Street.
Person Involved Post Office Box.
Person Involved Apartment/Suite/Room.
Person Involved City.
Person Involved State.
Person Involved ZIP Code (range of).
Business Owner Name.
Business Owner Phone Number.
Owner Name Prefix.
Owner First Name.
Owner Middle Initial.
Owner Last Name.
Owner Name Suffix.
Owner Address Number.
Owner Address Street.
Owner Address Street Type.
Owner Address Street.
Owner Post Office Box.
Owner Apartment/Suite/Room.
Owner City.
Owner State.
Owner ZIP Code (range of).
Fire Incidents

- Fire Cause (range of).
- Factors Contributing to Ignition #1-#2 (range of).
- Human Factors Contributing to Ignition (any combination of).
- Estimated Age of Person Involved (range of).
- Area of Origin (range of).
- Heat Source (range of).
- Item First Ignited (range of).
- Type Material First Ignited (range of).
- On-Site Material #1-#3 (range of).
- On-Site Material Storage Use #1-#3.
- Number of Residential Living Units (range of).
- Number of Buildings Involved (range of).
- Acres Burned (range of).

Equipment Involved in Ignition (range of).
- Equipment Power Source (range of).
- Equipment Portability.
- Brand.
- Model.
- Year.
- Fire Suppression Factors #1-#3 (range of).
- Mobile Property Type (range of).
- Mobile Property Make.
- Mobile Property Model (wildcard/partial).
- Mobile Property Year.
- Mobile Property State.
- Fire Spread (range of).

Structure Fire Incidents Only

- Structure Type (range of).
- Building Status (range of).
- Total Stories Above Grade (range of).
- Total Stories Below Grade (range of).
- Total Square Feet (range of).
- Building Length (range of).
- Building Width (range of).
- Story of Fire Origin (range of).
- Number of Stories Damaged by Flame, 1%-24% (range of).
- Number of Stories Damaged by Flame, 25%-49% (range of).
- Number of Stories Damaged by Flame, 50%-74% (range of).
- Number of Stories Damaged by Flame, 75%-100% (range of).
- Item Contributing Most to Flame Spread (range of).

Type Material Contributing Most to Flame Spread (range of).
- Presence of Detectors.
- Detector Type.
- Detector Power Supply (range of).
- Detector Operation.
- Detector Effectiveness.
- Reason for Detector Failure.
- Presence of Automatic Extinguishment System.
- Automatic Extinguishment System Type (range of).
- Automatic Extinguishment System Operation (range of).
- Number of operating Sprinkler Heads (range of).
- Reason for Automatic Extinguishment System Failure.

Civilian Fire Casualty Incidents Only

- Injured Person First Name (Wildcard/Partial String).
- Injured Person Last Name (Wildcard/Partial String).
- Sex.
- Casualty Number (range of).
- Age (range of).
- Race.
- Ethnicity.
- Affiliation (range of).
- Injury Date Month (range of).
- Injury Date Day (range of).
- Injury Date Year (range of).
- Injury Date Hour/Minute (range of).
- Severity (range of).

Cause of Injury (range of).
- Human Factors Contributing to Injury (Any Combination of).
- Factors Contributing to Injury #1-#3 (range of).
- Activity When Injured (range of).
- Location at Time of Injury (range of).
- General Location At Time of Injury (range of).
- Story Location at Start of Incident (range of).
- Story Where Injury Occurred (range of).
- Specific Location at Time of Injury (range of).
- Primary Apparent Symptom (range of).
- Primary Area of Body Injured (range of).
- Disposition.
Fire Service Casualty Incidents Only

Injured Firefighter First Name (Wildcard/Partial String).
Injured Firefighter Last Name (Wildcard/Partial String).
Sex.
Career Status.
Casualty Number (range of).
Injury Date Month (range of).
Injury Date Day (range of).
Injury Date Year (range of).
Injury Date Hour/Minute (range of).
Number of Prior Responses (range of).
Usual Assignment (range of).
Physical Condition Just Prior to Injury.
Severity (range of).
Taken To (range of).
Activity at time of Injury (range of).

Primary Apparent Symptom (range of).
Primary Area of Body Injured (range of).
Cause of fire Fighter Injury (range of).
Factor Contributing to Injury (range of).
Object involved in Injury (range of).
Where Injury Occurred (range of).
Story Where Injury Occurred (range of).
Specific Location Where Injury Occurred (range of).
Vehicle Type Where Injury Occurred (range of).
Did Protective Equipment Fail?.
Equipment Sequence Number (range of).
Protective Equipment Item (range of).
Protective Equipment Problem (range of).
Manufacturer.
Model.

EMS Incidents Only

Number of Patients (range of).
Patient Number (range of).
Time arrived at Patient Month (range of).
Time arrived at Patient Day (range of).
Time arrived at Patient Year (range of).
Time arrived at Patient Hour/Minute (range of).
Time of Patient Transfer Month (range of).
Time of Patient Transfer Day (range of).
Time of Patient Transfer Year (range of).
Time of Patient Transfer Hour/Minute (range of).
Provider Impression Assessment.
Age (range of).
Race.
Ethnicity.
Human Factors Contributing to Injury (Any Combination of).
Other Factors (range of).

Body Site of Injury.
Injury Type.
Cause of Injury or Illness (range of).
Procedures Used (any combination of).
Safety Equipment (range of).
Pre-Arrival Cardiac Arrest?
Witnessed?
Bystander CPR?
Post Arrival Arrest?
Initial Arrest Rhythm.
Initial Level of Provider (range of).
Highest Level of Provider at Scene (range of).
Patient Status.
Pulse on Transfer?
Disposition (range of).

HAZMAT Incidents Only

Chemical Name (Wildcard/Partial String).
UN Number.
Dot Hazard Class (range of).
CAS Registration Number.
Container Type (range of).
Container Capacity (range of).
Units: Capacity.
Estimated Amount Released (range of).
Units: Released.
Physical State when Released (range of).
Released Into (range of).
Released From.
Population Density (range of).
Area Affected (range of).
Area Affected: Units.
Area Evacuated (range of).
Area Evacuated: Units.
People Evacuated (range of).
Buildings Evacuated (range of).
HazMat Action Taken #1 (range of).
HazMat Action Taken #2 (range of).

HazMat Action Taken #3 (range of).
Release Sequence.
Cause of Release.
Factor Contributing to Release #1 (range of).
Factor Contributing to Release #2 (range of).
Factor Contributing to Release #3 (range of).
Factor Affecting Mitigation #1 (range of).
Factor Affecting Mitigation #2 (range of).
Factor Affecting Mitigation #3 (range of).
Equipment Involved in Release (range of).
Equipment Involved in Release Brand.
Equipment Involved in Release Model.
Equipment Involved in Release Year.
Mobile Property Involved in Release Type (range of).
Mobile Property Involved in Release Make.
Mobile Property Involved in Release Model (wildcard/partial).
Mobile Property Involved in Release Year.
Mobile Property Involved in Release State.
License Plate Number.
DOT/ICC Number.
HazMat Disposition (range of).
Wildland Fire Incidents Only

Latitude (range of).
Longitude (range of).
Township.
Township North/South.
Range.
Range East/West.
Section.
Subsection.
Meridian (range of).
Area Type (range of).
Wildland Fire Cause (range of).
Human Factors Contributing to Ignition (any combination of).
Factors Contributing to Ignition #1 (range of).
Factors Contributing to Ignition #2 (range of).
Fire Suppression Factors #1 (range of).
Fire Suppression Factors #2 (range of).
Fire Suppression Factors #3 (range of).
Heat Source (range of).
Mobile Property Type (range of).
Equipment Involved in Ignition (range of).
NFDRS Weather Station ID.
Weather Type (range of).
Wind Direction (range of).
Wind Speed (range of).
Air Temperature (range of).
Relative Humidity (range of).
Fuel Moisture% (range of).
Fire Danger Rating (range of).
Number of Buildings Ignited (range of).
Number of Buildings threatened (range of).
Total Acres Burned (range of).
Primary Crop Burned #1 (Wildcard/Partial).
Primary Crop Burned #2 (Wildcard/Partial).
Primary Crop Burned #3 (Wildcard/Partial).
Property Owner.
Federal Agency Code.
% Total Acres Burned Owned by Undetermined (range of).
% Total Acres Burned Owned by Tax Paying (range of).
% Total Acres Burned Owned by Non Tax Paying (range of).
% Total Acres Burned Owned by City/Town/Village (range of).
% Total Acres Burned Owned by County/Parish (range of).
% Total Acres Burned Owned by State or Province (range of).
% Total Acres Burned Owned by Federal (range of).
% Total Acres Burned Owned by Military (range of).
% Total Acres Burned Owned by Other (range of).
NFDRS Fuel Model at Origin (range of).
Person Responsible for Fire.
Gender of Person Involved.
Age of Person Involved (range of).
Activity of Person Involved (range of).
Feet From Right of Way (range of).
Type of Right of Way (range of).
Elevation (range of).
Relative Position on Slope.
Aspect.
Flame Length (range of).
Rate of Spread (range of).

Arson Fire Incidents Only

Agency Name Referred To.
Street Address.
City.
State.
ZIP Code.
Their Case Number.
Their ORI.
Their FID.
Their FDID.
Case Status.
Offender Status.
Suspected Motivation Factor #1.
Suspected Motivation Factor #2.
Suspected Motivation Factor #3.
Apparent involvement (range of).
Entry Method (range of).
Extent of Fire Involvement on Arrival.
Methods/Devices (range of).
Other Investigative Information.
Property Ownership (range of).
Initial Observations.
Assisting Agencies (range of).
Laboratory Used (range of).
Subject Number (range of).
Age (range of).
Gender.
Race.
Ethnicity.
Family Type (range of).
Motivation/Risk Factors (range of).
Disposition (range of).

Apparatus or Resources Local Reporting Only

Apparatus ID.
Type Apparatus/Resource (range of).
Dispatch Month (range of).
Dispatch Day (range of).
Dispatch Year (range of).
Dispatch Hour (range of).
Arrival Month (range of).
Arrival Day (range of).
Arrival Year (range of).
Arrival Hour (range of).
Clear Month (range of).
Clear Day (range of).
Clear Year (range of).
Clear Hour (range of).
Number of People (range of).
Use.
Action Taken #1 (range of).
Action Taken #2 (range of).
Action Taken #3 (range of).
Action Taken #4 (range of).
Personnel Local Reporting Only

- Apparatus ID.
- Type Apparatus/Resource (range of).
- Dispatch Month (range of).
- Dispatch Day (range of).
- Dispatch Year (range of).
- Dispatch Hour (range of).
- Arrival Month (range of).
- Arrival Day (range of).
- Arrival Year (range of).
- Hour (range of).
- Clear Month (range of).
- Clear Day (range of).
- Clear Year (range of).
- Clear Hour (range of).
- Number of People (range of).
- Use.
- Action Taken #1 (range of).
- Action Taken #2 (range of).
- Action Taken #3 (range of).
- Action Taken #4 (range of).
- Personnel ID.
- Name.
- Rank or Grade (range of).

All report outputs may be in a variety of user definable formats including printed output, ascii delimited text files and Adobe Acrobat files. As needed, the reports below can be produced with output (detail fields only) in ASCII delimited file format so that the report output can be loaded into a separate database table.

Tally Report

*Frequency count of codes by element that includes summary information of loss measures for each code within the element and the percentage of the total for each code. This query/report will be similar to the existing Tally report.*

- Must allow selection of report filter criteria using the field parameter list defined above.
- Must allow selection of a subset of coded fields that the Tally Report will be run against. (The NFIRS 4.1 Tally Report automatically runs against all coded fields in the system). Example: A Tally report that generates detail line information for two selected fields, Property Use and Area of fire origin. The report filter was set to generate the report for Incident type range 110-118 (all structure fires).
- Generates standard outputs as defined above.

The following fields will be included on the report:

Page header information including:
- Name of the Report.
- Run Date.
- NFIRS Data Year.
- The Database Filter in Effect.
- Name of the Coded Element.
- Report Field Descriptions.

Detail line information including:
- Field Code (also to include blank or invalid codes).
- Field Code Descriptor.
- Frequency Count (number of incidents).
- Percent of Total (for frequency).
- Number of Non Fire Service Deaths.
- Percent of Total Non Fire Service Deaths.
- Number of Non Fire Service Injuries.
- Percent of Total Non Fire Service Injuries.
- Number of Fire Service Deaths.
- Percent of Total Fire Service Deaths.
- Number of Fire Service Injuries.
- Percent of Total Fire Service Injuries.
- Percent of Total Property Dollar Loss.
- Property Dollar Loss.
- Percent of Total Contents Dollar Loss.
- Contents Dollar Loss.
- Total Estimated Dollar Loss (This will be property loss + contents loss).
- Percent of Total Estimated Dollar Loss.
The detail portion of the report will repeat for each coded field that was selected to be included in the report.

Summary line information (for each selected coded field) including:

- Field Code (also to include blank or invalid codes).
- Frequency Count (total number of incidents).
- Percent of Total (for frequency).
- Number of Fire Service Deaths.
- Number of Non Fire Service Deaths.
- Number of Non Fire Service Injuries.
- Percent of Total Non Fire Service Deaths.
- Percent of Total Non Fire Service Injuries.
- Number of Fire Service Deaths.
- Percent of Total Fire Service Deaths.
- Number of Fire Service Injuries.
- Percent of Total Fire Service Injuries.
- Property Dollar Loss.
- Percent of Total Property Dollar Loss.
- Contents Dollar Loss.
- Percent of Total Contents Dollar Loss.
- Total Estimated Dollar Loss (This will be property loss + contents loss).
- Percent of Total Estimated Dollar Loss.

### Cause Categories Report

The USFA fire cause methodology consists of using a set of hierarchical sorting rules based primarily on the Ignition Cause and Factors, Equipment Involved in Ignition, and Heat Source (plus Exposure Number) to create a hierarchical sorting of all fires into 35 priority (hierarchical) cause codes. These priority cause codes are then regrouped into 12 major cause categories plus a residual unknown-cause group. This framework has proved enormously useful to analysts over the years and is continued under NFIRS version 5.0.

Fires are assigned to a cause category based on a set of rules. Fires that do not meet the criteria are then available for cause assignment from the next rule. Anything left at the end is declared “Unknown”. These hierarchical groups are then grouped together to form the 13 major cause groups that fire analysts currently use.

A table containing the new hierarchical grouping rules is available by clicking the following url:


**Note:** As was the cause in previous versions, these cause category groupings are intended for use with structure fires only. They will not accurately portray causes for Outside or Vehicle fires and they were not designed for that purpose.
### Residential Fire Causes, 2000 NFIRS Data

08/08/03

<table>
<thead>
<tr>
<th>State = AA</th>
<th>Number of Fires</th>
<th>Percent</th>
<th>Number Deaths</th>
<th>Percent</th>
<th>Number Injuries</th>
<th>Percent</th>
<th>Dollar Loss</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incendiary, Suspicious</td>
<td>10,756</td>
<td>8.7</td>
<td>130</td>
<td>13.6</td>
<td>467</td>
<td>8.1</td>
<td>$179,093,066</td>
<td>10.9</td>
</tr>
<tr>
<td>Children Playing</td>
<td>3,184</td>
<td>2.6</td>
<td>36</td>
<td>3.7</td>
<td>390</td>
<td>6.8</td>
<td>$47,260,022</td>
<td>2.8</td>
</tr>
<tr>
<td>Smoking</td>
<td>5,932</td>
<td>4.8</td>
<td>119</td>
<td>12.5</td>
<td>550</td>
<td>9.6</td>
<td>$87,452,251</td>
<td>4.1</td>
</tr>
<tr>
<td>Heating</td>
<td>14,007</td>
<td>11.4</td>
<td>70</td>
<td>7.3</td>
<td>385</td>
<td>6.7</td>
<td>$138,460,775</td>
<td>8.4</td>
</tr>
<tr>
<td>Cooking</td>
<td>23,922</td>
<td>19.5</td>
<td>35</td>
<td>3.6</td>
<td>1,136</td>
<td>19.8</td>
<td>$99,843,297</td>
<td>6.0</td>
</tr>
<tr>
<td>Electrical Distribution</td>
<td>8,832</td>
<td>7.2</td>
<td>58</td>
<td>6.1</td>
<td>306</td>
<td>5.3</td>
<td>$148,793,312</td>
<td>9.1</td>
</tr>
<tr>
<td>Appliances, A/C</td>
<td>7,552</td>
<td>6.1</td>
<td>14</td>
<td>1.4</td>
<td>274</td>
<td>4.7</td>
<td>$68,017,308</td>
<td>4.1</td>
</tr>
<tr>
<td>Open Flame, Ember, Torch</td>
<td>8,032</td>
<td>6.5</td>
<td>46</td>
<td>4.8</td>
<td>568</td>
<td>9.9</td>
<td>$106,065,091</td>
<td>6.4</td>
</tr>
<tr>
<td>Other Heat, Flame, Spark</td>
<td>2,553</td>
<td>2.0</td>
<td>17</td>
<td>1.7</td>
<td>111</td>
<td>1.9</td>
<td>$37,930,105</td>
<td>2.3</td>
</tr>
<tr>
<td>Other Equipment</td>
<td>909</td>
<td>0.7</td>
<td>6</td>
<td>0.6</td>
<td>30</td>
<td>0.5</td>
<td>$16,322,743</td>
<td>0.9</td>
</tr>
<tr>
<td>Natural</td>
<td>2,637</td>
<td>2.1</td>
<td>7</td>
<td>0.7</td>
<td>43</td>
<td>0.7</td>
<td>$55,216,212</td>
<td>3.3</td>
</tr>
<tr>
<td>Exposure</td>
<td>4,852</td>
<td>3.9</td>
<td>21</td>
<td>2.2</td>
<td>50</td>
<td>0.8</td>
<td>$70,876,570</td>
<td>4.3</td>
</tr>
<tr>
<td>Unknown</td>
<td>29,123</td>
<td>23.8</td>
<td>391</td>
<td>41.1</td>
<td>1,411</td>
<td>24.6</td>
<td>$600,760,991</td>
<td>36.7</td>
</tr>
</tbody>
</table>

**Totals**

122,291 | 100.0 | 950 | 100.0 | 5,721 | 100.0 | $1,634,684,743 | 100.0
Fire Department Information Report

The report will produce FDID Header information for each Fire Department. The report will have the following features:

- The database input to the report will have a filter at the front end.
- The report Output will go to a file that can be viewed or printed. It may be an Adobe Acrobat file.

The following fields will be included on the report:

Page header information including:
- Name of the Report.
- Run Date.
- NFIRS Data Year.
- The Database Filter in Effect.
- Fire Department Name.

Detail line information including:
- Fire Department ID.
- Fire Department Address.
- Fire Department County.
- State.
- Population Density.
- Square Miles.
- Number of Incidents.
- Number Fire Service Deaths.
- Number Fire Service Injuries.
- Number Civilian Deaths.
- Number Civilian Injuries.
- Dollar Loss.
- Number Paid Firefighters.
- Number Unpaid Firefighters.

Summary line information including:
- State.
- Number of Incidents.
- Square Miles.
- Number Fire Service Deaths.
- Number Fire Service Injuries.
- Number Civilian Deaths.
- Number Civilian Injuries.
- Dollar Loss.
- Number Paid Firefighters.
- Number Unpaid Firefighters.

Cross Tabulation Report

The report will produce a cross-tabulation or matrix with any two coded fields in the database. The report will have the following features:

- The database input to the report will have a filter at the front end.
- The report output will go to a file that can be viewed or printed or to an ASCII delimited file. The print/view file may be an Adobe Acrobat file.

The following fields will be included on the report:

Page header information including:
- Name of the Report.
- Run Date.
- NFIRS Data Year.
- The Database Filter in Effect.
- The Names of the Two Cross Tabulation Fields.
- Report Field Descriptions.
- Detail line information including:
  - Field Code Descriptors for Element 1.
  - Field Code Descriptors for Element 2.
  - Number of Occurrences.
  - Percent of Column Totals.
  - Column Totals for the Two Statistics Above.
Fires Under Investigation Report

Tracking of fires whose ignition causes have been coded as “Under Investigation” after a designated interval of time has lapsed. The report allows identification of incidents whose causes have not been updated after an investigation is completed.

The user will specify a lapse date filter after which “under investigation” incidents will appear on the report.

The following fields will be included on the report:

- Page header information including:
  - Name of the Report.
  - Run Date.
  - Incident Lapse Date.
  - NFIRS Data Year.
  - The Database Filter in Effect.
  - Fire Department Name.

- Detail line information including:
  - State.
  - FDID.
  - Fire Department Name.
  - Incident Number.
  - Incident Date.
  - Incident Type.
  - Property Use.

- Summary line information including:
  - State.
  - FDID.
  - Fire Department Name.
  - Incident Number.
  - Incident Date.

Mutual Aid Matching Departments Report (State Level Report only)

Tracking of incidents that have another department FDID and incident number linked for mutual aid resource identification purposes. The report allows identification at the State and Federal level of incidents that have been completed with a mutual aid link to another department and incident number, yet no matching incident appears in the state NFIRS database.

The user will specify a lapse date filter after which “broken link” incidents will appear on the report.

The following fields will be included on the report:

- Page header information including:
  - Name of the Report.
  - Run Date.
  - Incident Lapse Date.
  - NFIRS Data Year.
  - The Database Filter in Effect.

- Detail line information including:
  - State.
  - FDID.
  - Fire Department Name.
  - Incident Number.
  - Aid Given To FDID.
  - Aid Given To Incident Number.
  - Aid Given To State.

- Summary line information including:
  - State.
  - FDID.
  - Fire Department Name.
  - Incident Number.
  - Total Incidents With No Matching Records.
Top Five Category Report

Top five coded field rankings summaries for loss categories ranked by frequency, percentages, injuries and deaths for a selected field. This report will produce output sorted several different ways.

The following fields will be included on the report:

Page header information including:
- Name of the Report.
- Run Date.
- NFIRS Data Year.
- The Database Filter in Effect.
- Fire Department Name.

Summary line information ranked by FREQUENCY including:

Selected Field Name

|--------------|--------------------|------------------|-------------------|----------------------|-----------------------|

Repeat the summary line information above ranked by TOTAL DOLLAR LOSS.
Repeat the summary line information above ranked by CIVILIAN FIRE DEATHS.
Repeat the summary line information above ranked by CIVILIAN FIRE INJURIES.
Repeat the summary line information above ranked by FIRE SERVICE DEATHS.
Repeat the summary line information above ranked by FIRE SERVICE INJURIES.
Selected Statistics / Fire Department Management Activity Report

Summary statistics on frequency of incident occurrence and average manpower required. This query/report will be similar to the existing Selected Statistics and Management Activity reports in the NFIRS 4.1.

The following fields will be included on the report:

Page header information including:
- Name of the Report.
- Run Date.
- NFIRS Data Year.
- The Database Filter in Effect.
- Fire Department Name.

Summary line information including:
- Fire Department ID
- Total Incidents
- Total Fires
  - Total Structure Fires
    - Total Confined Cooking Fires
    - Total Confined Chimney Fires
    - Total Confined Trash/Rubbish Fires
  - Total Fixed Mobile Property Fires
  - Total Mobile Home Fires
  - Total Vehicle Fires
  - Total Vegetation Fires
    - Total Wildland Fires
    - Total Brush Fires
    - Total Grass Fires
  - Total Outside Rubbish Fires
  - Total Dumpster Fires
  - Total Outside Storage/Equipment Fires
  - Total Crops/Orchard Fires
  - Total Incidents with Exposure Fires
  - Total Exposure Fires
  - Total Overpressures/Ruptures/Explosions/Overheat
  - Total EMS and Rescue
    - Total MedicalAssists
    - Total EMS Calls (no vehicle accidents)
    - Total Vehicle Accident EMS Calls
    - Total Vehicle/Pedestrian EMS Calls
    - Total Lock-ins
    - Total Searches/Rescues/Extrications
  - Total Hazardous Condition Calls
    - Total Combustible/Flammable Spills and Leaks

For each of the Totals above the following summary statistics are to be included on the Total Line:

- Percent of Total of Incidents.
- Average Number of Suppression Personnel Responded.
- Average Number of EMS Personnel Responded.
- Average Number of Suppression Apparatus Responded.
- Total Chemical Release, Reaction Calls
- Total Electrical Wiring /Equipment Calls
- Total Explosive, Bomb Removal Calls
- Total Attempt to Burn Calls
- Total Service Calls
- Total Person in Distress Calls
- Total Water Problem Calls
- Total Smoke Odor Problem Calls
- Total Animal Rescue/Problem Calls
- Total Public Service Assistance Calls
- Total Unauthorized Burning Calls
- Total Good Intent Calls
- Total Dispatched and Canceled Enroute
- Total Authorized Burning Calls
- Total Prescribed Fire Calls
- Total Smoke Scares
- Total EMS Call Where Patient Was Transported
- Total HazMat Investigations Only Calls
- Total False Alarms or False Calls
- Total Malicious False Alarms
- Total Bomb Scares
- Total System Malfunction Calls
- Total System Activations/No Malfunction
- Total Severe Weather or Natural Disasters
- Total Flood Assessments
- Total lighting strike (with no fire) Calls
- Total Citizen Complaints
- Total All Other Incident Types
- Total All Incident Types
- Total Man Hours.
- Average Man Hours.
- Average Response Time.
Data Quality Report

Tracks summary statistics on the frequency and percentages of Blank, Undetermined, None and Other category codes for the purpose of tracking and improving overall data quality. The report also generates statistics on the frequency of zero filling of numeric fields. The above codes may be valid entries in the NFIRS but high percentages in these categories may indicate a problem may exist.

The report user will select the module(s) for which the data quality report will be generated.

The following fields will be included on the report:

Page header information including:

- Name of the Report
- Run Date
- NFIRS Data Year

The Database Filter in Effect
- Reporting Level ID (Fire Department ID, State or Overall)
- NFIRS Module Name

Summary line information for each field in the selected modules including:

- Field Descriptor
- Number Present
- Percent Present
- Number Blanks
- Percent Blanks
- Number Zeros
- Percent Zeros
- Number Undetermined
- Percent Undetermined
- Number None
- Percent None
- Number Other
- Percent Other

The above summary line information is separated by page breaks between modules if more than one module is selected by the user for the report.

Forms Based Incident Report

Fire Service incident reporting software will include this report which generates a paper copy of a selected incident or range of incidents that can be used as a document of record for the fire department. The report will be based on the standard paper forms and will follow the layout of the form modules, sections, blocks, fields and codes but is not restricted to duplicating the check boxes and on-form instructions. It is not necessary that this report utilize printer graphics and may generated as a simple text report. The lack of check boxes and form instructions may mean that front and back forms, such as the Basic Module form, may be combined and printed on one page.
Additional Reporting and Query Requirements

Additional reporting requirements include:

- Ad hoc queries supporting free form query structuring (“where” or for clauses).
- Ability to do simple summary functions (count, sum, average and the like).
- SQL query capability.
- Report Writer to allow generation of new and customized reports.

The following is a list of reports which have not been specified but may be added to the NFIRS 5.0 system before the final release.

- Incident Location Report.
- State Profile Report.
- Average Department Response Time Report.
- Civilian Casualty Report.
- Fire Service Casualty Report.
- Ems Casualty Report.
- HazMat Report.
- Arson Report.
- Population Protected Report.
- USFA Data Quality Report (State/federal Level Only).
System Selection Issues

Implementation of NFIRS 5.0 includes decisions about hardware, software, policy development, training, and planning. NFIRS 5.0 users have several options to consider when choosing their hardware architecture, software application and database for implementation. Decisions regarding these issues are made with consideration for the current demand for information collection and management, anticipated expansion in the number of users, and the expectations for data analysis.

NFIRS Version 5.0 is designed to make extensive use of the technology that is available today, while allowing for future new technologies. NFIRS 5.0 takes advantage of the Internet for transmitting local fire department data to both the state and national database.

The USFA will make standard NFIRS 5.0 software available to states upon request. This software is designed to provide data entry, validation, data conversion, data and system management services. It is designed to run on most 32-bit operating systems. It can interface with other databases through the Open Database Connectivity Standard (ODBC) at the local or state level. States that choose to distribute the Data Entry software to their departments must agree to provide all technical and help-desk support to departments within their jurisdiction.

Platform Architecture Overview

Stand Alone Personal Computers (PC)

Personal computers can be a cost effective approach to incident data collection and analysis. A stand alone PC is appropriate for situations in which there are a limited number of users who need to access the application, and concurrent access is not an issue. A fire department with a single station and a few qualified data users may be able to successfully use a stand-alone application. A PC application may be sufficient even if a large amount of data must be captured, provided the data need not be shared by users at other workstations. A department with several fire stations that sends all incident reports to a central location to be entered into the reporting application may also find that the stand alone application meets its needs.
The advantages of using a PC can include:

- Generally the least costly alternative in terms of initial cost and ongoing maintenance
- Can usually run on a moderately configured PC. Windows 95-based applications generally will require a pentium machine with 32 MB of RAM. Windows NT-based applications generally will require a Pentium or above machine with 64 MB of RAM.
- Administration and maintenance of the application is controlled at a single point and can be handled by a single person.
- A large amount of data can be collected and reported provided the PC hardware has the capacity to store and process the data.

However, the application and data can only be accessed from a single location by one person at a time. It may be difficult or impossible to add Local Area Network (LAN) access to the application at a later date and still maintain acceptable performance of the system.

**TABLE 4-1. Hardware and Software Platform Guidelines - System Type: Stand Alone**

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Pentium based PC with 32 MB of RAM is the minimum recommendation for Windows 95 or NT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Systems/ Network OS</td>
<td>Windows 95</td>
</tr>
<tr>
<td></td>
<td>Windows NT</td>
</tr>
<tr>
<td>Development Tools</td>
<td>PC Development tool that produce Windows based applications that utilize PC based file systems. Examples of such tools include, but are not limited to:</td>
</tr>
<tr>
<td></td>
<td>FoxPro Windows</td>
</tr>
<tr>
<td></td>
<td>Visual FoxPro</td>
</tr>
<tr>
<td></td>
<td>Paradox Windows</td>
</tr>
<tr>
<td></td>
<td>dBase Windows</td>
</tr>
<tr>
<td></td>
<td>Visual dBase</td>
</tr>
<tr>
<td></td>
<td>Clipper</td>
</tr>
<tr>
<td></td>
<td>Visual Basic</td>
</tr>
<tr>
<td>File System</td>
<td>PC file systems that support relational or hierarchical database structures. Examples of these file system include, but are not limited to:</td>
</tr>
<tr>
<td></td>
<td>Base files</td>
</tr>
<tr>
<td></td>
<td>Access Files</td>
</tr>
<tr>
<td></td>
<td>Btrieve files</td>
</tr>
<tr>
<td>Record Volume/Number of Users</td>
<td>Stand alone applications utilizing one of the listed file structures are capable of managing large numbers of records provided the PC running the application is equipped with adequate RAM and hard disk space. A well designed application should be able to handle record numbers in the 10,000 to 20,000 range on a stand alone PC.</td>
</tr>
<tr>
<td>DBA System Administration</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Hardware Maintenance</td>
<td>Optional</td>
</tr>
</tbody>
</table>
Local Area Network

Local Area Networks (LAN) expand the capability to include multiple users working concurrently in the system. An incident reporting application that is designed to run on a LAN is appropriate for situations in which there are a number of users who need concurrent access to the application. A LAN-based application running in a fire department that needs several people at the same location to use the application at the same time will provide connectivity and shared access. Depending on the amount of data being captured and the design of application software, a LAN also may be able to supply limited access to workstations outside the physical location of the network through remote access. A small LAN can be configured with one server providing account verification, file sharing, print sharing, and application sharing.

LAN advantages include:

- Access to the application and data concurrently by a set number of users.
- Controlled access to the application by the network administrator. Groups of individuals can be given access to just those applications for which they have a need.
- Controlled administration and maintenance of the application at a single point, with the results available to all workstations connected to the LAN.
- The ability to add workstations as more people need access to applications served by the network. It is also likely that additional software licenses will be required as users are added.

The LAN will require a higher commitment to system maintenance, both hardware and software, than a stand alone PC. A LAN, though, raises issues not encountered in PC platforms.

- The cost of hardware for a LAN can be considerably more than a stand alone PC. A dedicated server machine is needed as well as workstation PCs to access the server. Additional LAN hardware, such as network interface cards and cable, must also be purchased.
- A LAN will require someone to administer its functions: backups, software installation and upgrades, security validations, hardware and software problem determination, etc. This can be someone at the user's site who has been trained in the network operating system (NOS) or a vendor who has been contracted to handle the administration.
- A LAN will require a hardware maintenance contract to cover component failures and routine service.
- A large increase in the number of users on the LAN, or in the number of applications being run, may require additional servers.
- Adding remote access to the LAN may result in unacceptable performance of certain applications at the remote workstations.

The Hardware and Software Platform Guideline Table on the next page describes additional issues to be considered when exploring a LAN system.
TABLE 4-2. Hardware and Software Platform Guidelines - System Type: Small LAN

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Workstations on the LAN should be a 486 based PCs and above is the recommended platform. 32MB of RAM is recommended as a minimum for Windows 95 and 64MB for Windows NT. Servers should be Pentium class machines with a minimum of 64MB of RAM. If possible SCSI hard drives should be used in the server. These recommendations are based on the current technology and industry standards.</th>
</tr>
</thead>
</table>
| Operating Systems/ Network OS | ● Windows 95  
● Windows NT  
● OS/2  
● Mac |
| Development Tools | For small LANs with no remote access requirements PC development tools that produce Windows based applications that utilize PC-based file systems. Examples of such tools include but are not limited to:  
● FoxPro  
● Visual FoxPro  
● Paradox  
● dBase  
● Visual dBase  
● Clipper  
● Visual BASIC  
For larger single sites, LANs including those that require some remote access PC tools to develop Windows-based applications that can utilize RDBMS engines may be more appropriate. This will depend on the individual needs of the purchaser with regard to volume of data, number of remote users, and required response times. Examples of such tools include, but are not limited to:  
● Visual FoxPro  
● Visual dBASE  
● Visual BASIC  
● Power Builder  
● SQL Windows |
| File System | For small LANs with no remote access requirements PC file systems that support relational or hierarchical database structures. Examples of these file systems include, but are not limited to:  
● xBase files  
● Access files  
● Btrieve files  
For larger single site LANs, LANs that require some remote access, or sites that will be capturing and processing very large amounts of data, a RDBMS is a better choice. Examples of these file systems include but are not limited to:  
● SyBase  
● SQL Server  
● DB2/2 |
| Record Volume/Number of Users | Small LAN installations that are running applications that rely on xBase file structures must be aware that data bases with large amounts of data can greatly affect application performance. This degradation of performance can be particularly noticeable on remote access work stations. This is due to the inherent nature of the way these types of files are processed by the applications that use them. In order to perform certain tasks, the entire database must sometimes be transported over the LAN wire or, in a worst case scenario, over a slow telephone line. Depending on what level of performance you require, this type of installation can be expected to handle from several thousand to 10 or 20 thousand records. A small LAN running an application that is using RDBMS can handle very large amounts of data and still maintain an acceptable level of performance. However, for applications that will only be dealing with small amounts of data, this data access method will be slower than a simple flat file data base. |
| DBA System Administration Hardware Maintenance | Required for RDBMS  
Required  
Required |
Wide Area Network

A Wide Area Network can be effective in large Metro departments and in regional settings in which many departments agree to share a system. A large jurisdiction, city, county, or state with a regional central reporting agency may need an incident reporting application that is designed to run on a large LAN or wide area network (WAN). This platform is appropriate for situations in which there are a large number, or geographically dispersed, group of users who need concurrent access to the application. The heavy volume of data and remote access requirements in this situation require an application that takes advantage of a relational database management system (RDBMS) running on a centralized server. It also is likely that additional servers are required to handle account verification and file sharing requirements.

The advantages users gain with a WAN include:

- Wide access to applications and other services provided by the network to a large and geographically dispersed group of users.
- A centralized data repository for collection and reporting purposes.
- Applications utilizing RDBMS technologies are generally more scalable. This allows for future growth of the system.
- Applications using RDBMS technologies are much more secure than applications using many other data management systems.

The Hardware and Software Platform Guideline Table on the next page describes additional information to be considered when exploring a WAN system.
## TABLE 4-3. Hardware and Software Platform Guidelines - System Type: Large LAN or WAN

| Hardware | Workstations on the LAN should be Pentium-based PCs as a minimum, although existing 486-based equipment may be used if performance is not an issue. 32MB of RAM is recommended for Windows 95, 64 MB of RAM is recommended for NT.

- Servers performing account verification file sharing, and print-sharing services should be Pentium II class machines with a minimum of 64MB of RAM. If possible SCSI hard drives should be used in the server.
- Application servers running the database engine or other shared applications should be run from Pentium II class machines with 1 - 4 processors or RISC based machines.

These recommendations are based on the current technology and industry standards. |

| Operating Systems/Network OS | Windows 95
- Windows NT
- OS/2
- MAC

The Network Operating Systems (NOS) includes Windows NT Server, Netware 3.x and 4.x, and OS/2 Warp Server. NOS on RISC machines should be UNIX or Windows NT. |

| Development Tools | For larger LANs and WANs, PC tools that develop Windows-based applications to utilize RDBMS engines are more appropriate. Examples of such tools include but are not limited to:
- Visual Foxpro
- Visual dbASE
- Visual BASIC
- Power Builder
- SQL Windows
- Oracle Developer 2000 |

| File System | For larger LANs and WANs, a RDBMS is a better choice for a file management system. Examples of these files include but are not limited to:
- Oracle
- SyBase
- SQL Server
- DB2/2 |

| Record Volume/Number of Users | Record volumes should be large enough, and remote access to data common enough, to make the investment in this type of technology worthwhile. Records numbering in the 10s to 100s of thousands are common in this type of system.

Above 20 users and with remote access to data required. More users can be added until performance of the system bogs down. At that time, increasing the power of the hardware can be done to restore the system to an acceptable level of performance. |

| DBA System Administration Hardware Maintenance | Required
Required
Required |
Mainframe Computer

Mainframe systems can be cumbersome and complex, but can be appropriate where a municipal system is available. A mainframe-based solution is only possible if an existing hardware, software, and support structure already exists to support a mainframe environment. Even with such an environment, it is often difficult to obtain the programming and analysis support necessary to develop a large application. An organization with a mainframe environment will generally have an Information Systems Department that will work with the business area to determine the feasibility and economics of building a particular application on a mainframe. Anyone considering building an incident reporting application in this manner should consult with their internal data processing support organization.

Network Server Overview

File servers allow sharing of software applications through a central processing unit that downloads applications to workstations. Network servers can be divided into two broad categories: file servers that provide file sharing, print sharing, and authentication services, and application servers that run applications such as database engines or web servers. The two types of servers have different hardware and software requirements because they perform different types of services.

File Server

A file server runs a network operating system and supplies the application and data files to the network workstations. The applications execute and the data is processed on the workstation. The server needs fast, large hard drives and fast network adapters to provide optimum performance for the file and print sharing services provided by the server. The amount of RAM and processor speed are important to the user authentication and verification services provided by the server, but are usually not the limiting factor in file server performance.

An application that is being served from a file server loads the executable files into the RAM of the workstation. The workstation performs all of the work required by the application program. Data is transferred from the server to the workstation as it is needed to perform application functions. Applications that use flat file or xBase type databases can be slowed considerably by transmission times when databases become very large. In order to perform certain application functions, a copy of the entire database must be transferred from the server to the workstation for the application to process the data.

The network operating system that runs on the file server needs to have the ability to handle the sharing of disk and print resources among numerous connected workstations and to perform authentication and security functions. The NOS does not necessarily need to be a true pre-emptive multi-tasking operation system as the file server does not generally run any other applications.

The File Server Network Chart on the next page graphically displays a system that uses a file server.
FIGURE 4-1. File Server Network

FILE SERVER

File Server runs the network operating system and supplies the application and data files to the workstations. The applications execute and the data is processed on the workstation. The file server needs fast hard drives and fast network line speeds to provide good performance to the LAN.

Applications such as Word, Excel, and the Fire Reporting System reside here. They can be accessed without slowing access to data.

Data from the File Server travels across the LAN to the workstation. Certain operations require the entire data base to be transmitted.

The workstation benefits from having large amounts of RAM because the applications run in the RAM of the workstation.

Storing temporary files used during xBase type system processing speeds application execution. The local hard drive needs to have the ability to hold a copy of the entire data base for short periods of time.

Remote Workstation runs Remote Control Software.

Only screen images and keystrokes need to be transmitted.

Remote Workstation

Local Hard Drive

Hard Disk 1

xBase Data Base

Hard Disk 2

Application Files

File Server

WORKSTATION

Modem

This workstation runs Remote Control Software and your application. All the work is done locally.

Modem

Only screen images and keystrokes need to be transmitted.
Application Server

Application servers share the workload with the workstations, making the hard disk size and data transmission speed less critical than in a file server system. An application server runs a network operating system and runs shared applications such as a database engine. The application server shares the work to be done with the workstation. A database engine that is running on the server listens for requests from the workstations and processes those requests. Only the request is transmitted from the workstation to the server and only the answer is transmitted from the server back to the workstation. This arrangement puts an emphasis on the amount of RAM and number and speed of processors on the application server. Hard disk size and speed as well as transmission speed is also a factor affecting server performance, but these factors are not as critical for application server performance.

The network operating system that runs on the application server needs to have the ability to process multiple requests for data or other services, such as communication services, simultaneously. A true pre-emptive multi-tasking operation system is best for this type of server.

The Application Server Network Chart on the next page graphically displays a system that uses an application server.
FIGURE 4-2. Application Server Network

**APPLICATION SERVER NETWORK**

Data Base Server

128 MG RAM

RDBMS Data Bases

RDBMS Indexes and Logs

Mirrored DASD

Applicat i on Server Network

File Server runs the network operating system and supplies the application and data files to the workstations.

Applications such as Word, Excel, and the Fire Reporting System reside here along with non RDBMS data.

File Server

Hard Disk 1

Application Files

Workstation

Data from the database server is transmitted across the LAN. Only the data that meets the application's request for information need be transmitted, not the entire database.

Workstation

Remote LAN Node

Modem

Remote Workstation runs Network Requester Software.

Remote Workstation

128 MG RAM

RDBMS Data Bases

RDBMS Indexes and Logs

Mirrored DASD

Data from the database server is transmitted across the LAN. Only the data that meets the application's request for information need be transmitted, not the entire database.

The database server runs the RDBMS engine. This performs the data management work of the applications that use the relational data. Security, query requests, logging, backup, transaction processing are all performed by the database server.

The workstation need not be as powerful in the Data Base Server network because part of the processing load is taken on by the RDBMS.
**Software Selection Issues**

Software decisions can be guided by key questions that address the efficacy of the program and vendor support. Software for a fire incident reporting system can be acquired from USFA (state-supported option only) or purchased as a standard package, much the same as word processing and desktop publishing programs. They can also be developed for specific custom application. Several points should be considered with either software approach. Many of the questions listed here could be used to develop a Request for Proposal to solicit bids for the installation and/or to develop NFIRS 5.0 software in a jurisdiction.

**Off-the-Shelf Products**

These products are developed for distribution to multiple fire agencies. The purchaser buys the product in its current configuration with minimum customization.

- Is the software NFIRS certified?
- How many years has the vendor been in business?
- How much experience does the vendor have in fire service software?
- Does the vendor have any similar products?
- Can you obtain fully functional demonstrations of the program?
- Can the vendor provide a reference list of at least 10 customers?
- How will the vendor handle technical support and what is the cost?
- Can you review documentation and product tutorials?
- Is training available in the use of the software and how much does it cost?
- Is installation of the software available and how much does it cost?
- How does the vendor handle software fixes and what are the costs?
- How does the vendor handle maintenance releases and what are the costs?
- Is the software compatible with other applications, spreadsheets, word processing, third-party report generators, etc.?
- Will the vendor maintain this software with changes in operating systems?
- What are the system requirements?
- What are the system maximums, such as capacity for records (estimate your needs for 3 years)?
- Is the software compatible with your operating system?
- What data analysis is built-in?
- How does the vendor suggest handling data back-up and recovery?
- What is the vendor's primary business?

**Custom Application Development**

Custom applications demand that the vendor focus on meeting the customers needs and standards. These products are developed and designed to meet the specific needs of a customer. The following questions are additions to those asked for standard software.

- Will access to the source code be available?
- What happens should the company or the product be sold?
- What development language will the vendor use?
- How does the vendor suggest handling platform maintenance?
USFA Supplied Software

The United States Fire Administration has developed client and server software for the use of states and departments. The software is designed to work with most 32-bit operating systems, such as Windows 95, Windows NT, System 7, UNIX, OS/2, etc. It incorporates platform portability through use of the JAVA software development language and can interface with non-ORACLE databases through an Open Database Connectivity interface. When standard system software components are used at the state or metro levels, a custom integration with existing databases may be required. For more detailed information about the USFA software option See “Standard USFA Software Implementation Guidelines” on page 351.

Quality Control Issues

On-scene reporting is the foundation on which a reliable system is built. Quality control is based on devising and using procedures that ensure precise and reliable data. Precision means complete and accurate data collection at the recommended level of detail for each coded field; reliability means the data is collected and coded consistently. NFIRS data flows from the local level to the state level and then to the national level through the transfer file specification. The local fire department is responsible for the quality of data in the transfer file it submits to the state. The state is responsible for the quality of the data in the transfer file it submits to the national level.

Quality control measures ensure consistency and reliability. Quality control issues focus on:

- The software used to collect and analyze data
- The incident documentation process
- Editing the data and correcting errors
- Timeframes and deadlines for data submission throughout the system
- Accurate system participant information

Documenting the Incident

The data collected to describe an incident is the foundation of the system, therefore, the field participants in the system will need:

- Initial training for data collection
- Feedback on completeness and accuracy
- Refresher training on data collection and coding schemes

Those who investigate incidents must be able to determine cause and record the incident for later data entry. They need to do a complete job of assembling the facts of the incident and then consistently record them each time. Therefore, after the initial training of all fire departments for NFIRS 5.0, there should be a provision for annual refresher training.

There also should be a system in place to double check the collection and data entry work. Field edits and relational edits can be built into the system that will reveal unacceptable and unreasonable data. Data management personnel utilize these techniques to improve and validate the data.

Data Edits and Error Corrections

Editing and correcting errors is a system-wide activity, involving local, state, and federal organizations. All errors resulting from the edit/update process need to be reported to fire departments and the submission of corrections from fire departments needs to be encouraged. This is especially critical for fatal errors, which prevent the data from being entered into the NFIRS database.
The corrections for any errors reported to the local fire department by the state should be included in the next month's submission of data to the state. Uniform coding at the national level also necessitates edit checks and quality control monitoring.

**Timely Data Submission**

Data submission deadlines are required, especially for the annual year-end cutoff to ensure final closure of the year. The state should establish and enforce a final data submission deadline for each year in order to close the processing. Without a final deadline, after which data is no longer accepted at the state level, data submissions will continue indefinitely. The state should encourage timely data submission from every fire department in order to submit the overall state's data to the national level in time.

Meeting data submission deadlines support state and federal efforts to analyze and disseminate the data. A continuous steady effort promoting participation of all fire departments in a state is important for data quality. If the percentage of participating fire departments is highly variable, then problem trends are not as reliable. This is especially true when larger fire departments are involved in varying levels of participation from year to year.

Statewide statistics for both fire and non-fire incidents are less accurate when a smaller percentage of fire departments are reporting and when a smaller percentage of incidents are reported. When the statewide problem statistics are lacking a significant percentage of fire incidents, the scope of the fire problem appears to be smaller than it actually is for that state. This results in less support of the fire service and less attention being paid to fire prevention efforts.

The information provided by a national reporting system loses value as it becomes less timely. The comparison of trends and the analysis of data queries from state to state and from metro department to metro department are not possible until the year is closed. The last state to submit its data to the national level determines when final national statistics and information will become available to all for that year.

**Maintaining Fire Department Identification and Participation Information**

Documentation of local participation helps states manage data submission and quality throughout the year. Two or more fire departments can merge into one, one fire department can split into more than one, new fire departments are formed, and existing fire departments cease to exist. Fire departments also change chiefs, phone numbers, addresses, and areas covered. It is important for the state to maintain accurate and up to date records on all fire departments.

It is also important to maintain logs of data received, data processed (edit/update), and errors found in data submissions by fire department for each month and year. It is important for a state's credibility to be able to answer questions like, “Did you get the March data I sent 3 weeks ago?” These logs provide a handy reference to keep close watch on participation and timely reporting by fire department. Waiting until sometime after the final year-end deadline to realize that some fire departments have not submitted any data is too late.

**Training Issues**

**Audience**

There is a critical need for training at several levels of a primary fire reporting entity. This is critical to ensure accurate collection methods and strong support for the reporting system. Fire department personnel training can focus on cause determination and collection methods.
Fire Department Personnel

Those fire department members with reporting responsibilities, who work at the scene of the incident, are the important first link in the data collection process. Without their support and cooperation, the incident reporting system will break down at a most critical point.

Training needs for these department members include:

- **Cause Determination:** Accurate reporting demands that the causes of fires and other incidents be found whenever possible. The quality of data can be significantly improved with an organized training program in cause determination.
- **Data Definition:** Primary data collectors need to first know what items are to become part of the system and understand how to define each item. This will require a working knowledge of the system data dictionary. At this point, great contributions can be made to data quality as the collection is made at the proper precision with consistent interpretation.
- **Information Gathering:** Primary collectors must know and use the proper mechanics to get the data into the system. This includes utilizing the appropriate forms and techniques to move the data from the scene of the incident to the point of computer input. It may even include computer input if these fire department personnel are responsible for it.
- **Reporting Benefits:** For the purpose of motivation, firefighters and other primary data collectors need to understand how the collection of data benefits them in their work. They need to feel that the data is being used to increase their effectiveness as firefighters.

Data Management Personnel

Data management personnel training concentrates on information collection and quality control. These are the personnel who are responsible for processing the data into its final form, usually in a computer disk file. They are responsible for the overall management of the data system and handle the dissemination of information developed from the data. In small departments, they may be the same firefighters who collect data at the incident scene. However, in larger departments they will likely be specialists whose primary task is to process incident reports.

- **Data Collection System Mechanics:** Training is needed in how and when to interface with the other members of the collection team. Scheduling of data submission and specific responsibilities of all those involved is important to those managing the system, including when and how to submit data to other agencies.
- **Using the Computer Software:** Most collection systems will be computer-based and the data managers will be operators of this equipment. They will need detailed training and instructions on how to utilize the software and hardware needed to process data for the incident system. In addition, training may be needed in operating systems and local area network systems.
- **Quality Control Considerations:** Data managers have the major responsibility for maintaining high quality data. They need training in the many different techniques of ensuring that data is collected accurately and reliably.

Chiefs, Officers, and Data Users

These are usually senior department personnel who turn the raw data into usable and understandable information for distribution. They will take the computer files and manipulate and refine the data into tables, graphics and other forms appropriate for the intended audience.

- **Audience Recognition and Plausible Uses:** Managers need training in recognizing the many different audiences for incident information. This information should include appropriate ways to present the information to a particular user.
- **Data Analysis Skills:** Appropriate training for these managers would include the many different ways to analyze the data and turn it into meaningful information. They should be qualified to utilize statistical programs as well as graphic presentation tools.
• Data Definitions: This group must be able to understand the exact meaning of every data element and the codes that are used to classify the incidents. Thorough training on the data dictionary will enable these managers to properly interpret the information as they develop presentations for end users.

Training Frequency

Just as operations training is incorporated into a department's routine, data collection and management need to become regular training events. Based on the needs of the department, training will be appropriate many different times. The size of the department, number of training personnel available, and the method of data collection all dictate the frequency of training events.

• Change-over Time: When a new reporting system is adopted there will be an urgent need to provide training for most of the department personnel. There will be many questions about procedures and features of the new system. This is an excellent time to provide those training classes while members are motivated to learn as much as they can about the new system. This training also will ensure that there is no drop in quality during the changeover.

• Regular Drills: Training drills afford an opportunity to provide reporting system training on a regular schedule. By giving an appropriate amount of training on a scheduled basis, personnel can learn the system without being pulled from their duties. This requires coordination from company officers.

• Data Entry Point: Training materials should be present at the data entry points for regular use and reference by those personnel. The frequency of training would be as needed by those entering data.

• Scheduled Training Events: It will be helpful to schedule training events periodically to introduce new procedures and reinforce established ones. There will be times when the only way to accomplish the training goals is to put groups together and present classes.

Training Approaches

A wide variety of training approaches encourages individual and group exploration of the data system and its impact on the department.

• Organized Classes: In these situations, an instructor is placed in a class of an appropriate size and a traditional training event occurs. Many innovative techniques may be used such as audio/visual and computerized procedures, but the training is held in the traditional class format.

• Video Presentations: This approach utilizes a videotaped program as the primary medium for training. It can be a class presentation that has been reduced to video, or it can be actual or simulated action situations used for illustration and training. It may be accompanied by written tests or response documents.

• Computer-aided Instruction: These training events are usually done on an individual basis and utilize a computer to present the information and perhaps receive responses from the learners. Major types of computer aided instruction include tutorials, interactive programs, and game simulations.

• Help Files: These informational documents usually accompany computer programs. They can now be produced as stand-alone documents for use in different learning situations. They can be displayed using standard computer programs.

• Working Manuals: These documents are developed and provided for the purpose of step-by-step guidance in accomplishing the subject matter. They take the form of instruction manuals, documentation manuals, and handbooks.

• On-line Sources: It is now possible to distribute training information and instructions over local area networks and the Internet. This makes it possible to reach large audiences with a common body of knowledge of interest to many users.
Implementation Action Plan

Integrating hardware, software, policy development, and training requires an action plan that will help manage NFIRS 5.0 implementation. An action plan is a powerful tool to assist in clarifying goals, objectives and determining who, what, when and how the objectives will be met. The Goal - implementing NFIRS 5.0 - has several objectives that need to be achieved for the system to be operational. Each objective has specific tasks that may be dependent on the completion of other tasks or objectives.

Following are several benefits gained from using an action plan process for NFIRS 5.0 implementation:

- To provide a management tool for achieving a successful implementation
- To give the project a focus and direction
- To furnish a blueprint for management to monitor project status
- To render a shared view of the project that leads to improved teamwork and cohesiveness

Following this section is a sample action plan for implementing NFIRS 5.0. The objectives are clearly measurable and the tasks for each objective have a clearly defined start/stop date and responsible party. It is best to keep timeframes for each objective under 6 months. Objectives that take longer than 6 months may be jeopardized by changing requirements and budgets.

The sample action plan objectives, tasks and time frames are dependent on the jurisdiction’s operating environment. Changes will be required to tailor the plan to your jurisdiction. For example, budget approvals and contract awards may be done outside the organization and can take significantly longer to complete. This plan also assumes that any custom development can be completed in 8 weeks. This may be an underestimate if the work is being done by another governmental agency.
### TABLE 4-4. Sample Implementation Action Plan (Sheet 1 of 2)

<table>
<thead>
<tr>
<th>Objectives/Tasks</th>
<th>Duration (weeks)</th>
<th>Start Date</th>
<th>End Date</th>
<th>3/1</th>
<th>4/1</th>
<th>5/1</th>
<th>6/1</th>
<th>7/1</th>
<th>8/1</th>
<th>9/1</th>
<th>10/1</th>
<th>11/1</th>
<th>12/1</th>
<th>1/1</th>
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</thead>
<tbody>
<tr>
<td><strong>PRE-PLAN ANALYSIS</strong></td>
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<td>Determine costs for current system (hardware, software, staff, supplies)</td>
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<td>3/1</td>
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<td>ID limitations with current system</td>
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<tr>
<td>Estimate costs for NFIRS 5.0 (hardware, software, staff, materials)</td>
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<td>3/1</td>
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<td>Contract information providers/partners</td>
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<td>3/1</td>
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<td>ID marketing requirements</td>
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<td>Perform cost/benefit analysis</td>
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<td>3/15</td>
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<tr>
<td>Prepare recommendations/report</td>
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<td>4/15</td>
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<td>Obtain approval to implement NFIRS 5.0</td>
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<td><strong>REQUEST FOR PROPOSAL</strong></td>
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<td>Select type of system (custom/off-the-shelf)</td>
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<td>5/1</td>
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<td>Determine hardware architecture</td>
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<td>Prepare statement of work (functional description, hardware, data dictionary, edits, logic flow, file transfer, inputs, outputs, installation issues, maintenance issues and acceptance issues)</td>
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<td>5/1</td>
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<td>ID potential vendors</td>
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<td>Bidders conference</td>
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<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IMPLEMENT NFIRS 5.0</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refine plan</td>
<td>2</td>
<td>8/1</td>
<td>8/15</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### TABLE 4-4. Sample Implementation Action Plan (Sheet 2 of 2)

<table>
<thead>
<tr>
<th>Task</th>
<th>Week</th>
<th>Month</th>
<th>Year</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Establish system policy, procedures</td>
<td>4</td>
<td>8/1</td>
<td>9/1</td>
<td></td>
</tr>
<tr>
<td>Implement marketing plan</td>
<td>4</td>
<td>8/1</td>
<td>9/1</td>
<td></td>
</tr>
<tr>
<td>Define data conversion plan</td>
<td>4</td>
<td>8/1</td>
<td>9/1</td>
<td></td>
</tr>
<tr>
<td>Order, install hardware</td>
<td>6</td>
<td>8/1</td>
<td>9/15</td>
<td></td>
</tr>
<tr>
<td>Obtain/develop NFIRS 5.0 software</td>
<td>10</td>
<td>8/1</td>
<td>10/1</td>
<td></td>
</tr>
<tr>
<td>Develop test/acceptance plan</td>
<td>4</td>
<td>9/1</td>
<td>10/1</td>
<td></td>
</tr>
<tr>
<td>Implement training plan</td>
<td>4</td>
<td>9/11</td>
<td>10/1</td>
<td></td>
</tr>
<tr>
<td>Test/modify system</td>
<td>4</td>
<td>10/1</td>
<td>11/1</td>
<td></td>
</tr>
<tr>
<td>Train users</td>
<td>6</td>
<td>10/15</td>
<td>12/1</td>
<td></td>
</tr>
<tr>
<td>System operational</td>
<td>M</td>
<td>1/98</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MAINTENANCE/FOLLOW-UP

<table>
<thead>
<tr>
<th>Task</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implement QA/QI</td>
<td></td>
</tr>
<tr>
<td>Increase participation</td>
<td></td>
</tr>
<tr>
<td>Conduct special studies</td>
<td></td>
</tr>
<tr>
<td>Generate reports</td>
<td></td>
</tr>
<tr>
<td>Refine policy and procedures</td>
<td></td>
</tr>
</tbody>
</table>
Section 5

Standard USFA
Software Implementation Guidelines

State Software

The United States Fire Administration has developed a standard software package which states may use to implement the NFIRS 5.0 standard described in this specification. Entities that choose not to develop their own NFIRS 5.0 compliant software may use the USFA provided standard software. The USFA software package consists of the following software components:

Data Entry Tool

The USFA Data Entry Tool provides the user the ability to enter, validate and maintain NFIRS 5.0 compliant incident information. The software can be used by departments to enter incidents and by the state NFIRS program manager to enter paper incidents and to manage the state database of reported incidents.

The Data Entry tool supports all paper forms associated with the national standard. In addition, the tool includes support for a number of options that provide states and local departments the ability to setup information outside the national standard. This includes the following:

- **Plus+ One Codes**: Every coded field included in the national standard allows for one additional level of specificity, definable by the state. For example, if the national standard for a code is three digits, a fourth digit is provided for the states to provide more specific responses.
- **State and Local Information**: To encourage states and local fire departments to participate, additional state and local fields may be captured using the Data Entry Tool. (Note: This information needs to be setup in the system using the Program Administration Tool, which is discussed below).
- **Special Studies**: Special Studies track specific coded responses for information that is captured only for a specific period of time. These studies may be performed at the national, state and/or local level. This information can be setup and maintained using the Data Entry tool.

Fire departments interested in using the USFA standard data entry software must contact their state NFIRS program manager to see if the standard USFA software will be supported by their state. States choosing to provide the standard USFA data entry software to their departments must provide all technical and help-desk support for the software. If states lack resources to provide software support they may choose to implement other software options.
Data Validation Tool

One of the key objectives of the new NFIRS was to provide validation of incident information against the national standard at the earliest possible point in the reporting process, regardless of the tool used to enter the incident information. If the information is entered via the USFA Data Entry Tool, validation is automatically performed as the information is being entered.

For those choosing to enter incident information via 3rd party or custom systems, the USFA Data Validation Tool can be used to validate a delimited flat file containing the incident information. These delimited flat files will serve as the lowest common denominator between the national NFIRS tools and other NFIRS 5.0 compliant systems.

The process of validating incident information begins by reading all the records in the delimited flat file associated with a particular incident exposure. If all records are read successfully, this information is then validated against all codes and rules defined at the national level, as well as any additional state and local information requirements.

Data Conversion Tool

Many states and local fire departments will continue to report incidents using the NFIRS 4.1 standard. Another key objective for the new system is the ability to store and report on information entered in both 4.1 and 5.0 compliant systems. The new NFIRS 5.0 data structure will support the storage and reporting of NFIRS 4.1 compliant data. This data can be validated after entry and before transmission to the next level of the reporting process, using a process similar to that used in the USFA Data Validation Tool. NFIRS 4.1 data will go through the following conversion/validation processing as part of the NFIRS 5.0 system.

- NFIRS 4.1 data will be mapped to the NFIRS 5.0 format
- NFIRS 4.1 data will be marked as 4.1 data
- NFIRS 4.1 data will be validated against 4.1 rules

Program Manager Administration Tool

The new NFIRS 5.0 system is a dynamic, rules based system, which provides for state and local information needs. NFIRS Program Managers can use the USFA Program Manager Administration Tool for two main purposes.

First, this tool is used to enter and maintain state and local information requirements, including the following:

- Plus+ One Codes
- State Specific Rules and Actions
- State and Local Information
  - Coded Information
  - Numerical Information
  - Textual Information
  - Date/Time Information
Second, this tool is used by states to “Release” their information within the national database for national analysis. All participating states are given ultimate control over when their information can be used for national analysis. In an effort to encourage states to send their information more frequently during the year, and as a safeguard for states who opt to store all their incident information on the national database, each state is responsible for releasing their information for national analysis. Two key points should be noted in reference to releasing incident information:

- Only valid incidents may be released for national analysis.
- Releasing incidents does not include sensitive information (names, addresses, etc.). For details on security levels for sensitive information fields See “System Field Security Levels” on page 109.

**System Administration Tool**

The system administration tool is used for the day-to-day technical operation of the NFIRS 5.0 system. This tool is used for the following functions:

- Maintain users and user groups.
- Assign NFIRS service permissions to user groups.
- Manage NFIRS services.
- View system performance statistics.

**Reporting Environments**

The NFIRS 5.0 system offers three different reporting environments, designed to accommodate the various needs of different users within the NFIRS community; the reporting environments are as follows:

- FEMA Intranet Reporting.
- WWW Internet Reporting.
- Direct Data Access (ODBC) Reporting.
Implementation Options

For states choosing to use the Standard NFIRS 5.0 software there are two implementation options:

Implementation Using National Database

States may choose to use the FEMA National Database Server as their primary storage for incident information. Each state database resides in its own protected area on the FEMA server. Hardware and database maintenance, backups and system performance handling is performed by FEMA and USFA. Database management is done via the FEMA WAN by the state NFIRS program manager using the software components described above. These system software components are part of standard, USFA provided client software which resides on a computer in the state NFIRS program office. If data entry occurs at the state level, incident information may be entered directly into the national database via the NFIC Data Entry Tool. This entry may be accomplished only via the FEMA WAN. Local data entry, for a state which has implemented the NFIRS 5.0 System using the national database requires the use of a local database when entering information via the NFIC Data Entry Tool.

FIGURE 5-1. National Database Implementation Flow
Implementation Using State Database

The second option available to states is to allow states that desire a local version of the NFIRS 5.0 system access to the various system components for local implementation. This will require a local installation of the national Server based components and the use of an ORACLE database. States that choose this option will be required to provide their own hardware, disk storage, hardware maintenance, ORACLE Database Administrator (DBA), ORACLE maintenance and database backups. This step in implementation will occur only after the various components are determined to be stable under option one above. The following diagram illustrates this option:

FIGURE 5-2. State Database Implementation Flow

States that decide to develop their own state level software using this specification as a guide must use the second option described above with the following additional differences:

- The state must develop its own system and client software components.
- The state may choose to use a database other than ORACLE and transmit incidents through the Open Database Connectivity Standard (ODBC) or by using the standard Flat Transaction File format.
Hardware and Software Implementation Requirements

PLEASE NOTE: These requirements are subject to change pending final release of this specification!

National Fire Data Center Hardware and Software

At the national level, database sizing and usage estimates were used to specify the national database and web server. Database estimation factors included the following:

- National database server slated to hold 7-9 million incidents per year for the first three years.
- EMS incidents will total 80% of all incidents nationwide.
- 15,000 Fire Service casualties per 1,000,000 Fires.
- 15,000 Civilian casualties per 1,000,000 Fires.
- Database overhead for indices, views, etc. estimated at 100% raw data size.

From these estimates, the following hardware and common off-the-shelf software (COTS) were chosen for the national database server.

<table>
<thead>
<tr>
<th>Database Server</th>
<th>Processor</th>
<th>Memory</th>
<th>Operating System</th>
<th>Storage</th>
<th>COTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun Microsystems Enterprise</td>
<td>2 *250 MHz CPU</td>
<td>512 MB per CPU</td>
<td>Solaris 2.5.1</td>
<td>75.6 GB (RAID-5 configuration)</td>
<td>Oracle 7.3.4 JDK 1.1.4</td>
</tr>
<tr>
<td>Server 4000</td>
<td></td>
<td></td>
<td></td>
<td>72-144 GB 4mm Tape Autoloader</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the national database server, a national NFIRS Web Server was specified for reporting and FTP purposes. The following hardware and COTS were chosen for the national NFIRS Web Server.

<table>
<thead>
<tr>
<th>WEB Server</th>
<th>Processor</th>
<th>Memory</th>
<th>Operating System</th>
<th>Storage</th>
<th>COTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compaq 2500 Server</td>
<td>2 *200 MHz Pentium CPU’s</td>
<td>160 MB</td>
<td>Windows NT</td>
<td>Primary: 9.1 GB Wide-Ultra SCSI Backup: 4/8 GB DAT Tape</td>
<td>JDK 1.1.6 (or better)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Server 4.0 (Service Pack 3)</td>
<td></td>
<td>Visigenic’s Visibroker for Java ORB (v3.2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Visigenic’s Secure Socket Layer (SSL) Service</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Visigenic’s Gatekeeper</td>
</tr>
</tbody>
</table>
TABLE 5-3. NFIRS Application Server Requirements

<table>
<thead>
<tr>
<th>NFIRS Application Server</th>
<th>Processor</th>
<th>Memory</th>
<th>Operating System</th>
<th>Storage</th>
<th>COTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Three (3) Compaq Deskpros</td>
<td></td>
<td>233 MHz Pentium CPU</td>
<td>64 MB</td>
<td>Windows NT Server 4.0 (Service Pack 3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Primary: 9.1 GB Wide-Ultra SCSI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Backup: 4/8 GB DAT Tape</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

State, Metro and Local Hardware and Software

Depending on which components of the NFIRS 5.0 system are to be implemented at the state level and the volume of incidents processed by that state, different hardware and COTS minimum requirements apply. Please note that these hardware and software requirements are estimates. States should discuss their specific needs with the USFA NFIRS 5.0 Implementation Team.

TABLE 5-4.

<table>
<thead>
<tr>
<th></th>
<th>NFIRS Client Tools - Client Operation / Networked Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Memory</td>
</tr>
<tr>
<td>233 MHz Pentium or Better</td>
<td>64 MB - Recommended</td>
</tr>
</tbody>
</table>

TABLE 5-5. Database Requirements (Less than 3,000 Incidents per Year)

<table>
<thead>
<tr>
<th></th>
<th>NFIRS Client Tools and Local Database - Client Operation / Standalone Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Memory</td>
</tr>
<tr>
<td>233 MHz Pentium or Better</td>
<td>64 MB - Recommended</td>
</tr>
</tbody>
</table>

Microsoft Access 97
32-bit ODBC (part of Access install)
### TABLE 5-6. Database and Server Requirements (Less than 10,000 Incidents per Year)

<table>
<thead>
<tr>
<th>NFIRS Database and Server with Client Operations in Networked Mode (Less than 10,000 incidents per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Database</strong></td>
</tr>
<tr>
<td>Processor</td>
</tr>
<tr>
<td>166 MHz Pentium - Minimum 300 MHz Pentium or Better - Recommended</td>
</tr>
<tr>
<td><strong>Application Server</strong> (Minimal 1; Recommended 2)</td>
</tr>
<tr>
<td>Processor</td>
</tr>
<tr>
<td>166 MHz Pentium - Minimum 300 MHz Pentium or Better - Recommended</td>
</tr>
</tbody>
</table>

* Optional if Internet transmission will be used  
** Required for Server Side Firewall Negotiation  
*** May use existing web servers
TABLE 5-7. Database and Server Requirements (Greater than 10,000 incidents, But Less Than 1,000,000 Incidents per Year)

| NFIRS Database and Server with Client Operations in Networked Mode  |
| (Greater than 10,000 incidents per year but less than 1,000,000 incidents per year) |
| Database | |
| Processor | Memory | Operating System | Storage | Communications | Required COTS |
| 200 MHz Pentium - Minimum | 128 MB - Minimum | Windows NT 4.0 Server | 9.1 GB Available Hard Disk - Minimum | Network Connectivity | Oracle 7.3.4 |
| 300 MHz Pentium or Better - Recommended | 256 MB - Recommended | | 3.41 GB Hard Drives (Raid 5 configuration) - Recommended | |

| Application Server  |
| (Minimal 1; Recommended 2 or more) |
| Processor | Memory | Operating System | Storage | Communications | Required COTS |
| 200 MHz Pentium - Minimum | 64 MB - Minimum | Windows NT 4.0 Server | 30 MB Available Hard Disk | Network Connectivity | Visigenic’s Visibroker for Java ORB (v3.2) |
| 300 MHz Pentium or Better - Recommended | 128 MB - Recommended | | | Visigenic’s Secure Socket Layer 3.2 (SSL)* |
| | | | | Visigenic’s Gatekeeper** |
| | | | | Netscape Server 3.5.1 or Microsoft IIS*** |

* Optional if Internet transmission will be used
** Required for Server Side Firewall Negotiation
*** May use existing web servers
TABLE 5-8. Database and Server Requirements (Greater than 1,000,000 Incidents per Year)

| NFIRS Database and Server with Client Operations in Networked Mode (Greater than 1,000,000 incidents per year) |
|---|---|---|---|---|---|
| **Database** | **Processor** | **Memory** | **Operating System** | **Storage** | **Communications** | **Required COTS** |
| | 2 or more 200 MHz Pentium - Minimum | 128 MB per CPU - Minimum | Windows NT 4.0 Server or Solaris | 25 GB Available Hard Disk - Minimum | Network Connectivity | Oracle 7.3.4 |
| | Multiple 300 MHz Pentium or Better - Recommended | 256 MB per CPU - Recommended | | 1 9.1 GB Hard Drive (System) | | Oracle Parallel Query Option |
| | | | | 5 9.1 GB Hard Drives (Oracle) - RAIDE 5 configuration | | |

<table>
<thead>
<tr>
<th><strong>Application Server</strong> (Minimal 2; Recommended 3 or more)</th>
<th><strong>Processor</strong></th>
<th><strong>Memory</strong></th>
<th><strong>Operating System</strong></th>
<th><strong>Storage</strong></th>
<th><strong>Communications</strong></th>
<th><strong>Required COTS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 or more 200 MHz Pentium - Minimum</td>
<td>64 MB per CPU - Minimum</td>
<td>Windows NT 4.0 Server or Solaris</td>
<td>30 MB Available Hard Disk</td>
<td>Network Connectivity</td>
<td>Visigenic’s Visibroker for Java ORB (v3.2)</td>
</tr>
<tr>
<td></td>
<td>Multiple 300 MHz Pentium or Better - Recommended</td>
<td>128 MB - Recommended</td>
<td></td>
<td></td>
<td></td>
<td>Visigenic’s Secure Socket Layer 3.2 (SSL)*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Visigenic’s Gatekeeper**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Netscape Server 3.5.1 or Microsoft IIS***</td>
</tr>
</tbody>
</table>

* Optional if Internet transmission will be used
** Required for Server Side Firewall Negotiation
*** May use existing web servers

**Pre-Implementation Activities Guide**

Prior to the implementation of the NFIRS 5.0 system, there are a number of activities that need to take place. The following are pre-requisites in order to install and implement the 5.0 system regardless of software development or configuration choices.

- Assemble implementation team
- Acquire and install appropriate hardware and software
- Inform software vendors of any state/local requirements
- Establish appropriate network connectivity
- Train system and program administrators
- Assemble specific data requirements
- Plus-one codes
- State and local data requirements
- Additional validation rules
- Train end-users on data entry
- Setup end-user support system
- Reproduction and distribution of materials