

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
<b>Note: These changes apply to the release dated December, 1998</b>					
1	01/20/99	SPEC-TABLE.XLS, Design Documentation.	Wildland Module Edit Requirements, page 90.	Meridian, Area Type and Wildland Fire Cause fields have incorrect field type X.	Changed all three fields to type C (coded).
2	01/20/99	SPEC-TABLE.XLS, Design Documentation.	EMS Edit Requirements, page 84.	Witnessed and Bystander fields were incorrectly listed as fields rather than as codes under the Pre-Arrival Arrest Details field. Field names did not match Data Dictionary. Cardiac Arrest relational edit referred incorrectly to Provider Impression code 06 rather than 16.	Field names were changed to Cardiac Arrest and Pre-Arrival Arrest Details to match the Data Dictionary fields. Witnessed and Bystander fields were deleted as these are codes under the latter field (see Data Dictionary). Changed Provider Impression code from 06 to 16 under the Cardiac Arrest field cross edits column and added the same edit to the Pre-Arrival Arrest Details cross edits column.
3	01/20/99	SPEC-TABLE.XLS, Design Documentation.	EMS Edit Requirements, pages 83-84.	Body Site, Injury Type Cross-Edits referred to "Valid Codes, A" in the acceptable conditions column when it should have just said "Valid Codes".	Meaningless references to an acceptable condition of "A" were removed.
4	01/20/99	SPEC-TABLE.XLS, Design Documentation.	Fire Module Edit Requirements, pages 75-76.	Mobile Property, Block H Fire Module fields had meaningless notes in the cross edits column	Removed notes for Block H fields.
5	01/20/99	SPEC-TABLE.XLS, Design Documentation.	Structure Fire Module Edit Requirements, page 77.	Material Contributing Most to Flame Spread, Detectors and Automatic Extinguishing Systems fields, Block K, L and M in Structure Fire Module had meaningless notes in the cross edits column	Removed notes for Blocks K, L and M fields.
6	01/20/99	SPEC-TABLE.XLS, Design Documentation.	Arson Module Relation Edit 152, page 105.	Relational Edit 152 incorrectly excluded entry of age in block M2	Corrected Relational edit to allow entry of Age (Block M2)

## NFIRS 5.0 Design Documentation Changes

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7	01/20/99	SPEC-TABLE.XLS, Design Documentation.	Fire Module Data Dictionary, Fire Cause, page 171.	The "0 Fire cause, other" code was incorrectly labeled "conversion only" since this code is also the only valid fire cause for exposure fires.	Conversion only reference removed. Now this code may only used for conversion or when the incident is an exposure fire
8	01/20/99	SPEC-TABLE.XLS, Design Documentation.	Incident Flat File Transfer Format, Hazardous Material Chemical Transaction, Page 149.	The length of the Chemical Name field was too short at 25 characters.	The Chemical name field length was changed to 50 characters.
9	01/20/99	SPEC-TABLE.XLS, Design Documentation.	Wildland Fire Module Relation Edit 39, page 100.	Edit referred to old, incorrect incident types no longer valid in system	Edit was changed to: "This module must be present if the Incident Type is 100 series, except 140-143, 160, 170-173, 561, 631-632 when the Wildland Module is used."
10	01/20/99	Paper forms, Design Documentation.	Paper form for Fire Module, Block C, On Site Materials.	The on-form instruction for the On-Site Material Use checkbox was incorrectly stating that multiple checkboxes could be selected for each on-site material coded.	The instruction was changed to say "Check one box for each code entered"
11	01/21/99	Paper forms, Design Documentation.	Paper form for Structure Fire Module, Block I3, Building Height	The on-form Instruction for Block I3 and J3 were inconsistently stated even though they are the same.	The Instruction for Block I3, Building Height was changed to : "Count the roof as part of the highest story".
12	01/22/99	SPEC-TABLE.XLS, Design Documentation.	Paper form for Structure Fire Module, Block M4, Number of Operating Sprinkler heads.	The Form was truncating part of the element name	Corrected Block M4 title to" Number of Operating Sprinkler Heads"
13	02/03/99	SPEC-TABLE.XLS, Design Documentation.	Relational Edits. Page 105.	A Relational Edit dealing with Fire Service Casualties was missing from the documentation.	Relational Edit 155 was added which states: 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.

### NFIRS 5.0 Design Documentation Changes

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14	02/03/99	SPEC-TABLE.XLS, Design Documentation.	Relational Edits. Page 105.	A Relational Edit dealing with Civilian Casualties was missing from the documentation.	Relational Edit 156 was added which states: 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 critical error is generated.
15	02/03/99	SPEC-TABLE.XLS, Design Documentation.	Relational Edits. Page 105.	A Relational Edit dealing with Civilian Casualties was missing from the documentation.	Relational Edit 157 was added which states: 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 critical error is generated.

### NFIRS 5.0 Design Documentation Changes

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16	02/03/99	SPEC-TABLE.XLS, Design Documentation.	Relational Edits. Page 105.	A Relational Edit dealing with Civilian Casualties was missing from the documentation.	Relational Edit 158 was added which states: [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 the EMS module is present] (OR) [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 critical error is generated

### NFIRS 5.0 Design Documentation Changes

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17	02/03/99	SPEC-TABLE.XLS, Design Documentation.	Relational Edits. Page 105.	A Relational Edit dealing with Civilian Casualties was missing from the documentation.	Relational Edit 159 was added which states: [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 totals reported on the HazMat form AND the incident is a fire incident AND the HazMat module is present AND the EMS module is present] OR [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 plus the totals reported on the HazMat form AND the incident is a fire incident AND the HazMat module is present AND the EMS module is present] THEN A critical error is generated
18	02/03/99	SPEC-TABLE.XLS, Design Documentation.	Edit Requirements, Page 67, Basic Module, Block E1, Controlled Date and Controlled Time fields.	Edit was not clear that incident Types 561, 631 and 632 were also valid Incident Types for completion of these fields.	Modified the two edit entries to include Incident Types 561, 631, 632.
19	02/03/99	SPEC-TABLE.XLS, Design Documentation, Quick Reference Guide (QRG).	Data Dictionary, Basic Module Page 162, QRG page 15.	Code Definitions for the Detector field were missing from the Data Dictionary	Added codes and definitions for the Detector field: 1 Detector alerted occupants, 2, Detector did not alert occupants, U Unknown.
20	02/03/99	SPEC-TABLE.XLS, Design Documentation, Paper Forms.	Basic Module Paper Form and Design Documentation Basic Module Form, Block H2, Detector.	Detector is a coded field with 3 codes but only had one checkbox entry on the Basic Module paper form.	Added checkboxes and codes and definitions to the Basic Module paper form to reflect the codes in change #19

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21	02/03/99	SPEC-TABLE.XLS, Paper Forms.	Data Dictionary Spreadsheet, EMS Module, EMS Paper Form and EMS Paper Form in Design Documentation. Block I, Procedures Used.	Codes 1-9 were missing leading zeroes for this 2 digit field. The Data Dictionary is correct in the Design Documentation but the forms and the Spec-tables.xls file were affected	Added leading zeroes to codes 01-09 for EMS Procedures Used
22	02/05/99	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits, page 104.	Relational Edits 125 and 126 incorrectly stated that Pre-Arrival Arrest and Post Arrival arrest are not mutually exclusive. They are.	Relational Edits rules 125 and 126 were modified to indicate that Pre-Arrival Arrest and Post Arrival arrest are mutually exclusive.
23	02/05/99	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits, page 100.	Relational Edit 38 did not indicate that incident types 160 and 170-173 were also valid incident types for Wildland incidents. Also it did not make clear for which incident types the fire or Wildland module is a valid option.	The edit was revised to read: 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.
24	02/05/99	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits, page 100.	Relational Edit 39 did not indicate that incident types 113-118 do not require the completion of the fire module. Improved clarity for this rule was needed.	The edit was revised to read: This module must be present if the Incident Type is 100 series, except for Incident Types 113-118. 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.
25	02/05/99	Paper forms, Design Documentation, Quick Reference Guide (QRG).	Basic Module Paper Form and Design Documentation Basic Module Form, Block H2, Detector. QRG page 15.	The instruction on the Basic Module paper form for Detector needed to be modified so that it reflected added checkboxes. See change #20 above.	Changed instruction to: "Required for confined fires".

## NFIRS 5.0 Design Documentation Changes

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26	02/05/99	Paper forms, Design Documentation.	Basic Module Paper Form and Design Documentation Basic Module Form, Block B, Location.	The instruction on the Basic Module paper form for the Alternate Location Checkbox needed to be modified so that it clarified when this option is allowable.	Changed instruction to add the sentence: "Use only for Wildland fires".
27	02/09/99	SPEC-TABLE.XLS, Design Documentation, Quick Reference Guide (QRG).	Design Documentation, Data Dictionary, Fire and Civilian Fire Casualty modules, Area of Fire Origin and Specific Location at Time of Injury, page 168. QRG page 27	Code 57, Confined chimney fire, will never be reached in the system since confined fires only require the basic form be completed (incident types 113-118).	Deleted code 57 from the Area of Fire Origin and Specific Location at Time of Injury elements (both elements use the same codes and descriptors)
28	02/09/99	SPEC-TABLE.XLS, Design Documentation, Quick Reference Guide (QRG).	Design Documentation, Data Dictionary, Fire Module, On-site materials, page 166. QRG page 24.	Code 420, Rope, twine, cordage, should be code 421 since decade code levels are reserved for "other" categories.	Renumbered code 420 to 421. The descriptor remains unchanged.
29	02/12/99	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Fire Transaction, Element #17, Confined to Origin, page 139.	The Confined to Origin field is a type "C" coded field but the Flat File layout has it listed incorrectly as type "Y".	Changed the field type for the Confined to Origin field from type "Y" to Type "C". This field is a subset of the Flame Spread field codes and the value should always be "1" if true. See Flame Spread in the Data Dictionary.
30	02/12/99	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Wildland Fire Transaction, Element #16, Confined to Origin, page 142.	The Meridian field is a type "C" coded field but the Flat File layout has it listed incorrectly as type "N".	Changed the field type for the Meridian field from type "N" to Type "C". See Meridian in the Data Dictionary.
31	02/12/99	Paper forms, Design Documentation.	Paper Forms, Wildland Module, Block H, Weather Information.	The on-form instruction for Block H is inconsistent with the system edits	Removed Block H instruction note from the Wildland paper form.

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32	02/17/99	Quick Reference Guide (QRG).	QRG page 15, Block H1, Casualties.	The instruction in the QRG for entering Civilian Casualty totals incorrectly stated that a Civilian Fire Casualty module should be completed for each casualty entered. The instruction should have specified completion of the module for civilian fire casualties only.	Changed the instruction to state that a Civilian Fire Casualty module should be completed for each fire casualty.
33	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File Transfer Format, EMS Transaction, Element #12, Age, page 147.	The Size of the EMS age field was incorrectly listed as 3.3 instead of 3.2 length.	The size of the age field was corrected to a length of 3.2.
34	03/09/99	Design Documentation	Design Documentation, Figure 3-19, Basic Module Logic Flow, page 45.	The note stating that "If > 0, HazMat Module Required" has a typo. The ">" should be a "=".	The note was changed to read: "If = 0, HazMat Module Required"
35	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edits, page 105.	A relational edit on populating the Basic Module resource fields when the Personnel or Apparatus Module is used is listed in the base edits but was missing from the Relational Edits.	Added the relational edit: "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".
36	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edits, page 105.	A relational edit to post a validation warning for incidents with the Basic Module Estimated Dollar losses for content losses or property losses that are greater than \$500,000 was missing.	Added the relational edit: "If Incident Type = 1xx (fire) then generate a validation warning if either the Property or the Contents Dollar Loss value is greater than \$500,000".
37	03/09/99	SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Basic Module Block H System Module Flags.	One of the system module flags was listed incorrectly as "EMS Module" when it should have been "Arson Module".	Changed EMS Module to "Arson Module".

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38	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block B3, Acres Burned, Page 73.	The comment conflicted with relational Edit 43 and was incorrect.	The comment for Acres Burned None/less than 1 acre was removed.
39	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block D3, Confined to Object of Origin, Page 73.	The Confined to Object of Origin Element was incorrectly listed as "System" field when it should have been a Data field.	Changed the Element Type of the Confined to Object of Origin field to "D" from "S".
40	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block E1, Cause of Ignition, Page 74.	The Cross Fields note referring to R & S was incorrect.	The cross fields note was deleted.
41	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block E2, Factors Contributing to Ignition, Page 74.	Element Types (S & D) were switched for the Factor Contributing/None flag field and the Factor Contributing to ignition #1 field.	The Factor Contributing/None flag field was changed to Element Type S and the Factor Contributing to ignition #1 field was changed to type D.
42	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block E2, Factors Contributing to Ignition, Page 74.	The note for Factors Contributing to Ignition #1 was incorrect. Exposure fire is code 71 not code 61 as stated (which is "high wind").	The Factor Contributing to ignition #1 field note was modified to correct the error "Code = 61" to "Code = 71".
43	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block E2, Factors Contributing to Ignition, Page 74.	The note for Factors Contributing to Ignition #2 was incorrect. If an exposure fire, the second Factor Contributing to Ignition should always be blank.	The Factor Contributing to ignition #2 field note was modified to reflect that if Exposure > 0 then this field should be blank.
44	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block E3, Human Factors Contributing to Ignition None Flag, Page 74.	This entry is not a flag, "None" is an acceptable value for this element and the note for Human Factors Contributing to Ignition None Flag was incorrect.	Deleted the reference to "flag", changed the Acceptable Values to "N" and deleted the note.

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45	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block E3, Human Factors Contributing to Ignition Sex of Person Involved, Page 74.	The acceptable conditions for this field was redundant with the entry in the data dictionary.	The Acceptable Conditions for this field was changed to "Valid Code" for the sake of clarity.
46	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block H1, Mobile Property None Flag, Page 75.	The Mobile Property None Flag was incorrectly shown as a data field and not a system flag.	The element type was changed from "D" to "S" and a note added.
47	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Module Block H1, Mobile Property None Flag, Page 75.	The Mobile Property None Flag was incorrectly shown as a Y/N field and not a Coded field.	The Field Type was changed from "Y" to "C" and the "T or F" comment removed from the Acceptable Conditions column.
48	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Structure Fire Module, Page 76.	Acceptable Conditions for the Structure Fire Module did not include Structure Type code "2" (Portable, mobile structure).	Changed the Acceptable Conditions for the Structure Fire Module to include Structure Type code "2" (Portable, mobile structure).
49	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Structure Fire Module, Block L1, Presence of Detectors, Page 77.	Acceptable Conditions was inconsistent with the data dictionary entry.	Changed the Acceptable Conditions to be consistent with the data dictionary (Codes 1,N,U).
50	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Civilian Fire Casualty Module, Block E2, Ethnicity, Page 78.	Acceptable Conditions should have been "Valid Code".	Changed the Acceptable Conditions to "Valid Code" to be consistent.
51	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Civilian Fire Casualty Module, Block P, Disposition, Page 80.	Acceptable Conditions should have been "Valid Code".	Changed the Acceptable Conditions to "Valid Code" to be consistent.
52	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Civilian Fire Casualty Module, Block P, Disposition, Page 80.	The Notes column entry made no sense.	The note was deleted.

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53	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Service Casualty Module, Block J2, Stories or Floor Where Injury Occurred, Page 81.	The Notes column entry referred to a document that no longer exists.	The note was deleted.
54	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, EMS Module, Block G1, Human Factors, None, Page 83.	The Element Type should have been "D" and the Field Type should have been "N".	The Element Type was changed to "D" and the Field Type to "N".
55	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, EMS Module, Block G2, Other Factors, Page 83.	Other factors was inconsistent with coded field entries, having multiple line entries for codes, and did not include "None" as a choice.	Made "Other Factors" a one line entry consistent with other coded fields.
56	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, EMS Module, Block H1, Body Site, Page 83.	Reference to "Tables" in the Cross Fields column was meaningless.	Removed reference to "Tables" from the Cross Fields column.
57	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, EMS Module, Block K, Initial Arrest Rhythm, Page 84.	Acceptable Values column listed code "O" instead of code "0"	Changed Acceptable Values column to "Valid Code".
58	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, EMS Module, Block J, Safety Equipment, Page 84.	Acceptable Values column listed code "O" instead of code "0" for the "Other" code. Codes were listed separately (incorrectly) in the edits but were also in the data dictionary.	Changed Acceptable Values column to "Valid Code". Removed listing of separate codes which were incorrect and were already in the data dictionary.
59	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, EMS Module, Block I, Procedures Used, Page 84.	Acceptable Values column listed code "O" instead of code "0" for the "Other" code. Codes were listed separately (incorrectly) in the edits but were also in the data dictionary.	Changed Acceptable Values column to "Valid Code". Removed listing of separate codes which were incorrect and were already in the data dictionary.

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60	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, EMS Module, Block M, Pulse on Transfer, Page 86.	Codes listed in Acceptable Values column were not correct.	Changed Acceptable Values column to "1, 2".
61	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block B, Name of Chemical, Page 86.	Edit did not reflect the fact that the chemical name can be directly entered if it does not exist in the table .	Added a note and a new line in the edits for a text chemical name, length 50, type X.
62	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block E2, Released Into, Page 87.	The name of the element was incorrect in the edit.	Changed name of element from "Released Into Air" to "Released Into".
63	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block F1, Released From, Page 87.	The Release (inside/outside) entry was incorrect and was not consistent with the current data dictionary.	Deleted the Release (inside/outside) edit line.
64	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block F1, Story of Release, Page 87.	The "inside flag" referred to in this edit is incorrect and does not exist.	Deleted the references to "inside flag".
65	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block F1, Below Grade, Page 87.	The Below Grade entry was incorrect and was not consistent with the current data dictionary.	Deleted the Below Grade edit line.
66	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block G1, Area Affected, Page 87.	A comment was needed that if Area Affected is set to zeroes then the Area Affected Units should be set to Square feet in order to be consistent with the rules for Area Evacuated.	Added the comment: "If Zero is marked then AREA AFFECTED UNITS is set to Sq. Feet (1)".

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67	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block G2, Area Evacuated, Page 87.	A note was needed that if the Area Evacuated was "None" then the G2 and G3 blocks should be set to zero and disabled.	Revised the comment to read: "If NONE is marked then AREA EVACUATED is set to zero (0) and AREA EVACUATED UNITS is set to Sq. Feet (1). <b>Number of People Evacuated and Number of Buildings evacuated should be set to zero as well</b> ".
68	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block K, Factors Contributing to Release, Page 88.	The references here to a "K flag" were meaningless.	Removed the references to "K flag".
69	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block M, No Equipment Involved in Release Flag, Page 88.	This flag is a "system" Element Type but was incorrectly marked as a "data" type.	Changed the Element Type to "S", changed the default to "Blank" and expanded the note.
70	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, HazMat Module, Block N, Mobile Property None Flag, Page 88.	This flag is a "system" Element Type but was incorrectly marked as a "data" type.	Changed the Element Type to "S", changed the default to "Blank" and expanded the note.
71	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Is this a Wildland Fire Flag, Page 89.	This flag does not exist.	Removed this entry.
72	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Block B Township, Range, Section, Pages 89, 90.	References to "N" in the Acceptable Conditions column for these three elements were meaningless.	Removed the three references to Acceptable Condition of "N".

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73	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Block D2, Human Factors, Page 90.	This entry is not a flag, "None" is an acceptable value for this element and the note for Human Factors Contributing to Ignition None Flag was incorrect.	Deleted the reference to "flag", changed the Acceptable Values to "N" and deleted the note.
74	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Block D3, Factors Contributing to Ignition, Page 90.	The reference to a "Factor Contributing Flag" was incorrect.	Deleted reference to "Factor Contributing Flag" in the note.
75	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Block D3, Factors Contributing to Ignition #1 and #2, Page 90.	The references to a "Factor Contributing Flag" for the two elements was incorrect.	Deleted reference to "Factor Contributing Flag" in the two notes.
76	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Block D4, Suppression Flag, Page 90.	There was an incorrect reference to a non-existent "Suppression Flag".	Deleted the entry for "Suppression Flag".
77	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Block D4, Fire Suppression Factor #1, #2, Page 90.	Factor #1 and Factor #2 should have been Fire Suppression Factor #1 and Fire Suppression Factor #2.	Changed Factor #1 and Factor #2 to Fire Suppression Factor #1 and Fire Suppression Factor #2.
78	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Block H, Temperature, Page 91.	Temperature range in the Acceptable Values column was too restrictive.	Removed the reference to a specific temperature range of -50 to 120 from the Acceptable Values column.
79	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Wildland Module, Block L1, Person Responsible for Fire, Page 92.	Reference to Y2, Y3 and Y4 in the Cross Fields column was incorrect. The form blocks had been re-lettered but this was not reflected in the edit.	Changed Y2, Y3, Y4 to L2, L3 L4 in Cross Fields column.

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80	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Personnel Module, Block B, Name, Page 95.	Field Length was incorrect.	Changed field length to 41 and added a note to indicate that the 41 characters are a combination of the First, Middle, Last Name fields totaling 41 characters in size.
81	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Arson Module, Page 95.	Note for "Arson Module" line was incorrect.	Deleted note.
82	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Department Identification Record, FDID, Page 97.	Acceptable Values of "last three positions must be numeric" was too restrictive.	Changed Acceptable Values to "Alphanumeric".
83	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Department Identification Record, State Code, Page 97.	Acceptable Values of "Numeric" was incorrect.	Changed Acceptable Values to "Valid Code".
84	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File transfer Format, Fire Department Header Transaction, Element #16, FIPS County Code, Page 154.	Field length of 4 was incorrect.	Changed field length to 3.
85	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Department Identification Record, FIPS County Name, Page 97.	Reference to element that does not exist in NFIRS 5.0	Deleted Reference to FIPS County Name.
86	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Department Identification Record, Square Miles, Page 97.	Reference to element that does not exist in NFIRS 5.0	Deleted Reference to Square Miles.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
87	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Department Identification Record, Population Density, Page 97.	Reference to element that does not exist in NFIRS 5.0	Deleted Reference to Population Density.
88	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Department Identification Record, Population Protected, Page 97.	Reference to element that does not exist in NFIRS 5.0	Deleted Reference to Population Protected.
89	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Basic Module, Wildland Address Elsewhere Flag, Page 66.	Element Type should have been "D" not "S".	Changed Element Type to "D".
90	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Basic Module, Resource Form Use Flag, Page 68.	Element Type should have been "D" not "S".	Changed Element Type to "D".
91	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Civilian Fire Casualty Module, Contributing Factors - None, Page 79.	Element Type should have been "D" not "S".	Changed Element Type to "D".
92	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Edit Requirements, Fire Service Casualty Module, Object Involved in Injury - None, Page 81.	Element Type should have been "D" not "S".	Changed Element Type to "D".

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
93	03/09/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edit 38, Page 100.	The Fire Module is optional for outside rubbish fires (incident types 150-155) but this was not reflected in the relational edit that determines when the module is required.	Relational edit 38 was modified to read: "This module must be present if the Incident Type is 100 series, except for Incident Types 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".
94	03/09/99	Design Documentation, Paper Forms.	Paper Forms, Basic Module.	The revision date on the Basic form said 02/05/98 when it should have said 02/05/99.	Changed the revision date on the Basic form to 02/05/99.
95	03/11/99	Design Documentation, Paper Forms.	Paper Forms, Basic Module, Block L form instruction.	The instruction, "Fire Module Required?", was missing Crop Fires 170-173 and the incident type series for outside rubbish and Special outside fires was missing the "other" incident types from the range.	Changed the instruction for "Fire Module Required?" to add Crop Fires 170-173 and the "other incident type category for outside rubbish and special outside fires.
96	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Data Dictionary, Wildland Module, Subsection, Page 100.	The data dictionary was missing the Subsection field codes.	Added Wildland Subsection field codes to the data dictionary (see revised Spec_Tables.xls).
97	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Data Dictionary, Basic Module, Name Prefix, Name Suffix, Page 164.	The data dictionary was missing the field codes for Name Prefix and Name Suffix.	Added Name Prefix and Name Suffix field codes to the data dictionary (see revised Spec_Tables.xls).
98	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Data Dictionary, Basic Module, Name Prefix, Name Suffix, Page 164.	The data dictionary was missing the field codes for Name Prefix and Name Suffix.	Added Name Prefix and Name Suffix field codes to the data dictionary (see revised Spec_Tables.xls).

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
99	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File Transfer Format, Hazardous Materials Transaction (1700), Field 8, Page 148.	The Released From field was not designated as a multiple choice field.	Added a comment that the Released From field was "MC (max of 2)".
100	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edits, Page 105.	The documentation was missing an edit to preclude a choice of both codes 2 and 3 in the Released From Field in the HazMat Module.	Added relational edit 162 which states: "HazMat Released From field choices 2 and 3 are mutually exclusive. Only one of these two codes may be chosen for an incident".
101	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File Transfer Format, Incident Personnel Transaction (1810), Rank (field 14), Page 151.	The Rank field length was incorrect in the documentation at 6 when it should be a length of 10.	Changed the Rank field to a length of 10 for the specified transaction.
102	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File Transfer Format, Arson Agency Referral Transaction (1910), Agency Case Number (field 19), Page 152.	Arson Agency Case Number should have been Type X field to allow non numeric entries for case numbers	Changed the Arson Agency Case Number field from type N to type X.
104	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edits 17 & 18, Page 99.	Relational Edits 17 and 18 were too restrictive.	Modified relational edits 17 and 18 by changing Actions Taken from "11" to "1x" in both edits.
105	04/02/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edit 20, Page 99.	Relational Edits 20 was too restrictive and did not include citizen complaints.	Modified relational edit 20 to change Incident Type from "90x" to "9xx".
106	04/02/99	SPEC_TABLES.XLS.	Spec Tables Data Dictionary, Wildland Module, Activity of Person field.	Codes 01-09 were missing the leading zeros in this two digit field (affects the Excel Data Dictionary only).	Added leading zeroes to the data dictionary field for codes 01-09.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
107	04/02/99	SPEC_TABLES.XLS.	Spec Tables Data Dictionary, Disposition fields for Civilian Fire Casualty Module, EMS Module	Both fields were labeled "Disposition". While not a problem in the Design Documentation, this can be confusing in the Excel Spreadsheet Data Dictionary	Labels for the two "Disposition" fields were expanded to distinguish the two.
108	04/03/99	Design Documentation, SPEC_TABLES.XLS.	Data Dictionary, Civilian Fire Casualty, Fire Service Casualty, Primary Apparent Symptom Field, pages 183 and 187.	The same set of codes for Primary Apparent Symptom were listed under two different modules. In addition the field entry for the Excel Spreadsheet Data Dictionary under the Civilian Fire Casualty Module was missing leading zeroes from codes 01-03 (Excel Spreadsheet tables only).	Changed the Data Dictionary to reference the Apparent Symptom codes for the same data element in the Civilian Fire Casualty Module section and added leading zeroes to codes 01-03.
109	04/16/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File Transfer Format, Fire Transaction (1100), Not Residential Flag (field 9), Page 139.	The "Not Residential Flag" field was missing from the Incident Flat File Transfer Layout Record Type 1100. It should have followed the "Number of Residential Units" field.	Added the "Not Residential Flag" field to the Incident Flat File Transfer Layout (record Type 1100) as field 9 and renumbered the remaining fields.
110	04/29/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edits, Page 105. Edits 155, 158, 159	EMS records may exist for the same casualty also documented in either the Civilian Fire Casualty Module or the Fire Service Casualty Module. In these cases, the sum of the casualty records for those modules may exceed the total count of casualties on the Basic Module but should only generate a warning and not a critical error.	Modified Relational Edits 155, 158, 159 to only generate a warning when EMS casualties are present and the sum of EMS records and Civilian Fire and/or Fire Service Casualties exceed the casualty counts on the Basic Module.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
111	04/29/99	Paper Forms	EMS Form Revision Date	The Revision Date on the EMS form said 02/03/98 when it should have said 02/03/99.	Modified the EMS Paper Form Revision Date to 02/03/99
112	04/29/99	Paper Forms	HazMat Form Block N, DOT/ICC Number	The DOT/ICC Number field was 11 positions in length instead of 17 positions as documented in the transaction file layout.	Changed the size of the DOT/ICC Number field on the form to 17 positions in length to match the transaction file and database sizes.
113	04/30/99	Design Documentation	Conversion Table, HazMat Module, Level of Release, page 299	Level of Release Code "00" should convert to blank and not to "UU" since "story of Release in NFIRS 5.0 is a numeric field.	Modified the conversion of HazMat 4.1 Level of Release Code "00" to "UU" to "00" to "Blank" in NFIRS 5.0 Story of Release.
114	05/05/99	Design Documentation, SPEC_TABLES.XLS.	Edit Requirements	The Name Suffix field was listed as a length of 3 for Person/Entity Involved and Owner blocks on the Basic Module, for the Civilian Fire Casualty Name and for the Fire Service Casualty Name Blocks in the Edit Requirements. It was listed as length 4 elsewhere in the documentation creating an apparent conflict.	Changed the length of the Name Suffix field from 3 to 4 globally in the Edit Requirements. Globally renamed "Mr. Mrs. Ms." to "Name Prefix" in the edit requirements field name.
115	05/05/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Data Dictionary, Basic Module, Name Prefix, Name Suffix, Page 164.	The Data Dictionary Name Suffix entry listed the codes "Junior" and "Senior" when they should have been listed as "Jr" and "Sr" respectively.	Changed the code values of "Junior" and "Senior" for the Name Suffix field to "Jr" and "Sr".
116	05/05/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File Transfer Format, Structure Fire Transaction (1200), No Flame Spread Flag (field 21), Page 142.	The "No Flame Spread Flag" field was incorrectly listed as a coded field in Transfer Layout Record Type 1200 instead of a Y/N flag as it should be.	Changed the No Flame Spread Flag from a coded field to a Boolean Y/N field with a length of 1.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
117	05/06/99	Design Documentation, SPEC_TABLES.XLS, Paper Forms.	Design Documentation, Data Dictionary, HazMat Module, Block F1, Released From field, Page 232.	The Story of Release field will directly carry a negative number so the below grade code (code 1) is not needed.	Removed code '1 Below grade' from the data dictionary and renumbered the remaining two codes. Renumbered the paper form codes and removed the number from the below grade box on the paper form.
118	05/06/99	Design Documentation, SPEC_TABLES.XLS, Paper Forms.	Design Documentation, Data Dictionary, Fire Service Casualty Module, Block J2, Story of Injury, Page 189.	The Injury Relationship to Structure field (in block J2) was missing from the data dictionary and was not represented on the Fire Service Casualty paper form.	Added the Injury Relationship to Structure field to the data dictionary and the Fire Service Casualty paper form.
119	05/14/99	Changes Table (This document)	Change 114	The Correction Description for Change 114 incorrectly referred to resizing the Name Prefix field from 3 to 4 when it should have said "Name Suffix"	Corrected Change 114 to accurately refer to the Name Suffix field (see change above)
120	05/14/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, HazMat Module, Relational Edit #103, Page 103	Relational edit 103 was incorrect since the area evacuated can easily be larger than the area directly affected by the release.	Deleted Relational Edit 103
121	06/17/99	SPEC_TABLES.XLS.	Spec_Tables.xls only, HazMat Module, Data Dictionary, Container Type	Code "00 Container type, other" is incorrectly displayed in the Excel Spreadsheet as "0 Container type, other". The code should have 2 zeros instead of 1.	Changed HazMat Container Type, Other code number from '0' to '00' in the spreadsheet.
122	06/24/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File Transfer Format, Hazardous Materials Transaction (1700), Field 8, Page 148.	Due to the restructuring of this element described in change #117, change #99 has been rescinded.	Removed the comment added in change #99 that the Released From field was "MC (max of 2)".
123	06/24/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edits, Page 105.	Due to the restructuring of this element described in changes #117 and #122, relational edit #162 is no longer required.	Deleted relational edit 162

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
124	06/24/99	Design Documentation, SPEC_TABLES.XLS.	Note for system designers on HazMat Module "Released From" field and the Fire Service Casualty "Story Where Injury Occurred" (J2 Block) field.		<b>NOTE TO DESIGNERS:</b> Block J2 on the Fire Service Casualty module and Block F1 on the HazMat module use the same codes. "Below Grade" values are entered as negative values in the "story of" fields. See the codes for the HazMat "Released From" field in the Data Dictionary and change #117 above.
125	06/25/99	Design Documentation, SPEC_TABLES.XLS, Paper Forms.	Data Dictionary Spreadsheet, Fire Service Casualty, Fire Service Casualty Paper Form page 2, and Fire Service Casualty Paper Form in Design Documentation. Block K1, Did Equipment Fail?	The documentation incorrectly listed codes "1" for Yes and "2" for No for this field when the system was expecting "Y" and "N" respectively.	Changed the codes for K1 Block on the Fire Service Casualty form in the system documentation form "1" and "2" to "Y" and "N".
126	06/30/99	Design Documentation, SPEC_TABLES.XLS, Paper Forms.	Data Dictionary Spreadsheet, EMS Module, Block I, Procedures Used.	The code descriptor for Procedures Used code "14 Intubation (ETGA)" had a typo. The T & G in "ETGA" was incorrectly transposed and should have been "EGTA" instead.	Changed the code description for Block I, Procedures Used code 14 to "Intubation (EGTA)". Modified the paper EMS form to reflect this change on the checkbox for code 14.
127	08/10/99	Design Documentation.	Conversion Table, Civilian Fire Casualty Module, Table 3-58, Location at Ignition, page 273.	The entry for the 4.1 code 1 line has an incorrect value of "5" under the "M1" column. It should be "4".	Corrected the value from "5" to "4".
128	08/10/99	Design Documentation.	Conversion Table, p. 271, Table 3-52, Detector Performance Conversion.	Block L4, Detector Operation = 3, Failed to Operate. Both values should convert to 2, Operated instead of a 3.	Changed both values to "2, operated".

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
129	08/10/99	Design Documentation.	Conversion Table, p. 271, Table 3-52, Detector Performance Conversion.	NFIRS-3, Block L4, Detector Operation = "2, Operated" should have converted to "3, Failed to operate" instead of 2.	Changed value to "3, Failed to operate".
130	08/10/99	Design Documentation.	Conversion Table, p. 244, Table 3-39, Type Situation Found Conversion.	The conversion did not carry mobile home fires into version 5.0 in a way that could be distinguished for analysis. A new conversion rule was needed.	Added the following rule: NFIRS-1, TSF=11(structure fire), MPT=17(mobile home, mobile building), FPU 410-419(1 and-2 family dwelling) Converts to: NFIRS-1, Block C, Incident Type = 121, Fire in mobile home used as a fixed residence and NFIRS-3, Block I1, Structure Type = 2, Portable/mobile structure.
131	08/10/99	Design Documentation.	Conversion Table, p. 244, Table 3-39, Type Situation Found Conversion.	The conversion did not carry mobile home fires into version 5.0 in a way that could be distinguished for analysis. A new conversion rule was needed.	Added the following rule: NFIRS-1, TSF=11(structure fire), MPT=17(mobile home, mobile building), FPU Not 410-419 (Not 1-and-2 family dwelling) Converts to: NFIRS-1, Block C, IT=123, Fire in a portable building.
132	08/10/99	Design Documentation.	Conversion Table, p. 244, Table 3-39, Type Situation Found Conversion.	The conversion did not carry mobile home fires into version 5.0 in a way that could be distinguished for analysis. A new conversion rule was needed.	Added the following rule: NFIRS-1, TSF=11(structure fire), MPT=14, 15, or 16(Motor home; Travel trailer; Camping trailer), FPU 410-419(1-and-2 family dwelling) Converts to: NFIRS-1, Block C, IT=122, Fire in a mobile home, camper, or recreational vehicle when used as a structure.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
133	08/10/99	Design Documentation.	Conversion table, page 303, Table 3-103, MPT/Transport Type Conversion.	NFIRS-2, Block H2, MPT= "57, Military non-fixed wing aircraft" should have converted to MPT= "50 Air transport vehicles, other" instead of code 57.	changed MPT conversion value to 50 from 57.
134	08/10/99	Design Documentation.	Conversion table, page 248, Table 3-41, Fixed Property Use Conversion.	4.1 FPU 322 should have converted to code 459 (Residential board and care) instead of code 419.	Changed 5.0 "convert to" value from 419 to 459.
135	08/10/99	Design Documentation.	Conversion table, page 248, Table 3-41, Fixed Property Use Conversion.	4.1 code 362 Should have converted to Property Use 321 instead of 323.	Changed 5.0 "convert to" value from 323 to 321.
136	08/10/99	Design Documentation.	Conversion table, p. 261, Table 3-44(1/2), Ignition Factor Conversion.	4.1 Ignition Factor 36 (Children playing) should have converted to Ignition factor 19 and Human Factors Contributing to Ignition "7, Age was a factor" and Age = 9 instead of "7 Unattended or unsupervised person.	Changed to "7, Age was a factor" and Age = 9.
137	08/10/99	Design Documentation.	Conversion table, p. 269, Table 3-51, Form of Material Ignited Conversion.	Item First Ignited Code 27 convert to code should have been code 26, "Household utensils, included are kitchen and cleaning utensils".	Changed 5.0 "convert to" value from 27 to 26.
138	08/10/99	Design Documentation.	Conversion table, p. 267, Table 3-49, Form of Heat of Ignition Conversion.	Form of Heat of Ignition code 47 should have converted to Heat Source code 80 not code 85 (which doesn't exist).	Changed 5.0 Heat Source "convert to" value from 85 to 80.
139	08/18/99	Design Documentation, SPEC_TABLES.XLS.	Data Dictionary, Basic Module Block K1/K2, Name Suffix field, Page 164.	The codes for Junior and Senior (JR and SR) were listed in the data dictionary as lower case. They should be upper case codes.	Changed Jr and Sr to JR and SR in the data dictionary for Name Suffix.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
140	08/18/99	Design Documentation, SPEC_TABLES.XLS.	Relational Edit 16, Page 99.	Incident Type codes 721 should have been allowed actions taken codes in the 90s series.	Relaxed the relational edit to remove the restriction on entering actions taken codes in the 90s series.
141	08/18/99	Design Documentation, Paper Forms.	Paper Forms, Fire Service Casualty Module, Block G2, Physical Condition Just Prior to Injury.	Code 3, "Ill or Injured", should have been listed on the form as code 4.	Changed code 3 to code 4 on the form.
142	09/08/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edit 13, Page 99.	The Incident Type rule for allowing the EMS module was too restrictive and did not allow for Extrications and Rescues (Incident Types 351-381).	Changed Relational Edit 13 to: "If used, the EMS module is only allowed for Incident Types: 100-243, 311, 321-323, 351-381, 400-431, 900".
143	09/09/99	Design Documentation.	Conversion table, p. 267, Table 3-49, Form of Heat of Ignition Conversion.	Form of Heat of Ignition code 32 should have converted to Heat Source code 62 not code 32 (which doesn't exist in NFIRS 5).	Changed 5.0 Heat Source "convert to" value from 32 to 62.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
<b>The following changes were applied in the 2000.1 cycle of the design specification released in January 2000.</b>					
144	09/24/99	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edits, Fire Module, D3a block, Confined to Origin, page 73.	The Confined to Origin edit incorrectly lists a valid entry as "Y or N". This conflicts with the rest of the edit which describes the field as coded and a subset of the "Flame Spread" field. The valid entry should be "Valid Code".	Change the valid entry for the Confined to Origin field to "Valid Code". This field is a subset of the Flame Spread field codes and should always be "1" if true. Also see change #29 and Flame Spread in the Data Dictionary. <b>NOTE: THIS CHANGE CORRECTS AN APPARENT CONFLICT WITHIN THE EDIT.</b>
145	10/06/99	Design Documentation.	Conversion table, p. 268 - 269 Table 3-50, Type of Material Ignited Conversion.	Type of Material Ignited codes 40-49 should all have converted to Type of Material Ignited code 41 not code 40 (which doesn't exist in NFIRS 5).	Changed Type of Material Ignited conversion for NFIRS 4.1 codes 40-49 to code 41 not code 40 (which doesn't exist in NFIRS 5). <b>NOTE: THIS CRITICAL CHANGE WAS APPLIED TO THE FEDERAL CONVERSION TOOL.</b>
146	11/05/99	Design Documentation.	Conversion table, p. 285, Table 3-76, Where Injury/Accident Occurred Conversion.	For codes 60-69 the conversion table specifies in the conversion a VEHICLE TYPE of "U UNDETERMINED". However, code "U" is not listed in the data dictionary as a "conversion only" code.	Added the 4.1 conversion only code: "U Vehicle type undetermined (conversion only)" to the Data Dictionary.
147	11/05/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Incident Flat File Transfer Format, Incident Personnel Transaction (Record Type 1810), Element #10, Personnel ID, page 151.	Record Type 1810 incorrectly specified the Personnel ID field as numeric when it should be type X. This conflicted with other record types capturing the same field.	Changed the Personnel ID field from Type "N" to Type "X".

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
148	11/05/99	Design Documentation, SPEC_TABLES.XLS.	Relational Edit 97, Page 103.	Relational edit 97 was incorrect and did not take into account the entry of negative numbers in the "Story of Injury" field for injuries that occurred below grade in a structure.	Changed relational edit 97 to: <b>If injured Inside/On Structure then Story of Injury must be entered</b> ".
149	11/18/99	Design Documentation.	Conversion table, p. 267, Table 3-49, Form of Heat of Ignition Conversion.	Form of Heat of Ignition code 62 should have converted to Heat Source code 53 not code 52 (which doesn't exist).	Changed 5.0 Heat Source "convert to" value from 52 to 53. <b>NOTE: THIS CRITICAL CHANGE WAS APPLIED TO THE FEDERAL CONVERSION TOOL.</b>
150	11/18/99	Design Documentation.	Conversion table, p. 265, Table 3-48, Equipment Involved in Ignition Conversion	4.1 Equipment Involved in Ignition code 32 should have converted to 5.0 Equipment Involved in Ignition code 656 not code 657 (which doesn't exist).	Changed 5.0 Equipment Involved in Ignition "convert to" value from 657 to 656. <b>NOTE: THIS CRITICAL CHANGE WAS APPLIED TO THE FEDERAL CONVERSION TOOL.</b>
151	12/14/99	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Relational Edits, Page 105.	When the "Directions" address type is used in the Location Block on the Basic Module, the "Street Name" field should not be required. There was no system edit in the design documentaion that reflected this rule.	Added relational edit 161 which states: <b>"If the "Directions" location type is checked then the Street Name field is not required and the "Cross Street or Directions" field is required"</b> .
152	01/03/00	Design Documentation, SPEC_TABLES.XLS.	Design Documentation, Data Dictionary, Basic Module, Street Type, Page 157.	Several common Street Types were not listed in the data dictionary.	Expanded the Street Type codes to include an additional 17 common street types.
153	01/03/00	Design Documentation.	Design Documentation, Structure Fire Block Flow Diagrams, Pages 48-49.	A few block flow instructions were missing from the Structure Fire diagrams.	Made several minor corrections and additions to the Structure Fire Block Flow diagrams.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
The following changes were applied in the 2000.2 cycle of the Design Specification released in July 2000.					
155	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edits, Wildland Fire Module, B block, Section, page 88.	The field type for Section in the edits was type X and conflicted with the flat file transaction layout where it is listed as type N. It should have been type N in the edit description.	Changed the Section field type in the edits from type X to type N.
156	06/27/00	Design Documentation. Conversion Excel Spreadsheets	Conversion table, page 273, Table 3-58, Location at Ignition Conversion.	The note for the conversion of M3 and M4 asterisked fields was confusing and needed clarification.	Modified the note to explain that 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.
157	06/27/00	Design Documentation. Conversion Excel Spreadsheets	Conversion table, page 286, Table 3-77, Fire Service Casualty Module, Cause of Fire Fighter Injury	Nine codes (201-209 for Cause of Fire Fighter Injury were converting the Object Involved in Injury to code 31 when they should have converted to code 30. Code 213 should have converted to Object Involved in Injury to code 42 instead of 31.	Modified the converted NFIRS 5.0 Object Involved in Injury codes for 4.1 Cause of Fire Fighter Injury codes 201-209 to code 30 from 31. Modified converted Object Involved in Injury code for 4.1 Cause of Fire Fighter Injury code 201-213 to code 42 from 31. <b>CRITICAL CHANGE WAS APPLIED.</b>

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
158	06/27/00	Design Documentation. Conversion Excel Spreadsheets	Conversion table, page 300, Table 3-97, HazMat Release Factor Conversion.	4.1 Release Factor 34 was incorrectly converting to 5.0 Release Factor 24 instead of code 34 as it should have.	Changed the 5.0 Release Factor 34 conversion value to 34 from 24. <b>CRITICAL CHANGE WAS APPLIED.</b>
159	06/27/00	Design Documentation. Conversion Excel Spreadsheets	Conversion table, page 303, Equipment Involved in Release.	The Equipment Involved in Release conversion table was missing from the conversion document. Except for 4.1 Release codes 01-09 and 91 97 all Release Factor codes convert the same as the table for Equipment Involved in Ignition on the Fire Module.	Added the missing Equipment Involved in Release table to the Excel Conversion Spreadsheets and the Design Documentation. <b>CRITICAL CHANGE WAS APPLIED.</b>
160	06/27/00	Design Documentation. Conversion Excel Spreadsheets	Conversion table, page 296, Table 3-94, HazMat Module, Special Hazmat Response Taken.	It was not made clear in the note that the conversion of this field is to Actions Taken fields 2 and 3 on the Basic module and the Special Hazmat Actions Taken are left blank for this conversion.	Changed the note to: "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."
161	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, HazHat Mobile Property Transaction (1720), DOT/ICC#(VIN) (field 14), Page 148.	The DOT/ICC Number field was incorrectly labeled "Mobile property VIN" in the 1720 transaction.	Changed the field name from "Mobile Property VIN" to "DOT/ICC Number".
162	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits 14, 15, 20, Page 97.	Action Taken 00 should be a valid choice for these edits.	Add 00 to valid actions taken for relational edits 14, 15, 20.
163	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 39, Page 98.	Incident Type 100 does not require the Fire Module be completed.	Modified the edit to specify that the Fire module is not required for Incident Type 100.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
164	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 74, Page 100.	If Presence of Detectors is YES, then L2, L3 and L4 are required. The rule should also state that if left blank, L2, L3 and L4 are not available fields.	Modified Relational edit 74 to also include that if the Presence of Detectors field is not completed, the entry of L2, L3 and L4 fields must not be allowed.
165	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 54, Page 99.	The edit did not reference the entry of "UU" in these fields. This revised edit also applies to all other "Factors Contributing" type fields in NFIRS 5.0 except for all of the "Human Factors Contributing To" fields in the system.	Modified the edit to specify that If the First "Factor Contributing to" field entry is None ("NN") or Unknown (UU) THEN an entry in the second (or third) "Factor Contributing to" field is not allowed unless it is also "NN" or "UU". "NN" and "UU" is allowed as an entry in the second/third field if the First field has an entry other than "NN".
166	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edits for Basic, Fire, Civilian Casualty, Fire Service Casualty, EMS, HazMat, Wildland Fire, Apparatus, Arson, Pages 67-96.	Many field's sizes in the edits did not account for the plus one code and did not match the field sizes in the flat file transfer format, which were correct.	Corrected numerous field size inconsistencies in the edits where the plus one digit was not accounted for in the size (see Spec Tables MS Excel file).
167	06/27/00	Design Documentation.	Design Documentation, Edits for EMS, Safety Equipment Undetermined Line, Page 84.	The 6, J D Undetermined edit line following the Safety Equipment edit does not belong and should have been deleted.	Deleted the Undetermined line following the Safety Equipment line in the edits on page 84 from the design document. This error did not affect the Excel Spec Tables.
168	06/27/00	Design Documentation. Conversion Excel Spreadsheets	Conversion table, page 260, Table 3-43, Fixed Property Use Conversion.	4.1 Property Use code 962 should have converted to 962 and not to 963 as listed in the table.	Changed the 5.0 "convert to" code from 963 to 962. The code is now 962 in both NFIRS 4.1 and in 5.0.
169	06/27/00	Design Documentation. Conversion Excel Spreadsheets	Conversion table, page 263, Table 3-46, Mobile Property Type Conversion.	4.1 Mobile Property Type code 79 was incorrectly converting to code 70 and should instead have converted to code 00 in 5.0.	Changed the 5.0 "convert to" code from 70 to 00.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
170	06/27/00	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Fire Module, Reports Attached Field, Page 178.	The Local Use, Reports Attached field and codes were missing from the Data Dictionary	Added the Reports Attached local use field to the Data Dictionary after the Mobile Property Make field..
171	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Basic Module, H2 block, Detector Alerted Occupants, page 70.	The comment describing "NNL" as the field length was incorrect and "Valid Code" was missing in the "Acceptable Conditions" column.	Modified the comment to reflect "NL" as the length and added "Valid Code" to the Acceptable Conditions column.
172	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 10, Page 97.	Relational edit #10 did not specify that Block H2, Detector Alerted Occupants, was required for all confined fires and for incident type 100.	Modified the relational edit to read: "If Incident Type = 100, 113-118 then completion of the fire form is optional, not required and Block H2, Detector Alerted Occupants, is required".
173	06/27/00	Design Documentation. Conversion Excel Spreadsheets	Conversion table, page 298, Area of Release note.	Area of Release is not a field in NFIRS 5.0. The note does not apply.	Deleted the Area Of Release conversion note since it does not apply and no conversion is done.
174	06/27/00	Design Documentation.	System Module Overview, Basic Module, page 12.	The example referring to the small grass fire as only requiring the Basic Module is incorrect.	Deleted the bulleted example "Small Grass Fire".
175	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Transactions 1120,1130,1200,1300,1720,1730,2000,2010,2020, Record Type, Pages 139-154.	The Referenced Transactions all had incorrect lengths for the Transaction Type field. All should have been a length of 5.	Changed all the referenced fields to a length of 5.
176	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Fire Transaction (1100), Age of Person (field 23), Page 138.	The Data Type of "Following" was incorrect. The correct type is a floating point (F) data type.	Changed Data Type from "Following" to "F".

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
177	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Fire Transaction (1100), Sex of Person (field 24), Page 138.	The Data Type of "A" was incorrect. The correct type is a "C" data type.	Changed Data Type from "A" to "C".
178	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Wildland Fire Module, I3 block, Total Acres Burned, page 90.	The length of the Acres Burned field was incorrect at 11. It should have been 9.1	Modified the length of the Wildland module Total Acres Burned field to 9.1 in the Edit Requirements
179	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Fire Service Casualty Transaction (1500), FD ID Number (field 9), Page 144.	The Data Type of "A" was incorrect. The correct type is a "X" data type.	Changed Data Type from "A" to "X".
180	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 162, Page 104.	A new system-wide relational edit was needed that specifies that if a date field is completed, the associated times fields must also be entered.	Added relational edit 162 which states: "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".
181	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 163, Page 104.	A new relational edit was needed to specify that when Mobile Property is entered, equipment cannot also be entered (be involved in the ignition) unless the mobile property burned but was not itself involved in the ignition .	Added relational edit 163 which states: "If Fire Module Block H1 "Mobile Property Involved" is not equal to 1, None or Blank AND Block F1 Equipment Involved in Ignition is not equal to Blank or None, an error is generated because there cannot be BOTH Mobile Property Involved and Equipment Involved in the ignition of the fire".

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
182	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits 50 and 73, Page 100.	Relational edits 50 & 73 incorrectly specified <= 70. It should have been < 70 since 70 is the beginning of a new code decade.	The Relational Edits were corrected to remove the (=) Equal to. The correct Relational Edit 73 is: 'K2 - Type of Material Contributing to Flame Spread is required only if Item Contributing Code is 00 or < 70.' Relational Edit 50 is the same except the fields involved in the edit are Item First Ignited and Type of Material Contributing to Ignition.
183	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 164, Page 104.	A new relational edit was needed to specify that an Action Taken of 00 is always a valid entry.	A relational edit was added that states: "00 Other Action Taken" is always a valid entry. This supercedes any limits on the entry of Actions Taken defined in relational edits 14-20.
184	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Paper Forms, Page 29, 32.	The Paper Forms did not reflect the latest version. In particular the Fire and the Fire Service Casualty Forms in the Design Documentation were dated 6/9/98.	Updated the Paper Forms in the Design Documentation
185	06/27/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, EMS (1600), Note, Page 146.	The first note at the bottom of page 146 incorrectly refers to field #12. It should refer to field #18, Body Sites of Injury instead.	Changed the reference to field #12 to field #18 in the first note at the bottom of the page.
186	06/28/00	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Fire , Area of Fire Origin, page 167. QRG page 27	Code 57, Chimney, is needed as a conversion only code.	Added Area of Fire Origin code "57 Chimney (conversion only)" for the purposes of converting Chimney fires from version 4.1 to 5.0.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
187	06/29/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 75, Page 100.	Relational edit 75 did not clearly specify that the L5 block on the Structure Fire form may only be completed when the detector operated.	Added the following to relational edit 75: "If Detector Operation not = 2 THEN Detector Effectiveness entry is not allowed.".
188	06/30/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 76, Page 100.	Relational edit 76 did not clearly specify that the L6 block on the Structure Fire form may only be completed when the detector failed to operate.	Added the following to relational edit 76: "If Detector Operation not = 3 THEN Detector Failure Reason entry is not allowed.".
189	07/05/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Wildland Fire Transaction (1300), Horizontal Distance from ROW, (field 56), Page 142.	The field length was incorrect at 3 and inconsistent with the rest of the documentation.	Changed the field length to 2 from 3.
190	07/05/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Wildland Fire Module, B Block, Township, page 88.	The field length was incorrect at 4 and inconsistent with the rest of the documentation.	Changed the edit length to 2 from 4.
191	07/05/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Arson Transaction (1900), Suspected Motivation Factors, (field 10), Page 150.	The maximum number of entries should have been 3 and not 4 for this multiple choice field.	Changed the maximum number of entries to 3 from 4.
192	07/05/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Arson Transaction (1900), Apparent Group involvement, (field 11), Page 150.	The maximum number of entries should have been 3 and not 4 for this multiple choice field.	Changed the maximum number of entries to 3 from 4.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
193	07/06/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Arson Transaction (1900), Other investigative Information, (field 17), Page 150.	The maximum number of entries should have been 8 and not 4 for this multiple choice field.	Changed the maximum number of entries to 8 from 4.
<b>The following changes were applied to the 2001.1 cycle of the Design Specification released in January 2001.</b>					
194	12/19/00	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Basic , Street Type, page 158. QRG, Page 6.	An expansion of the number of Street Type codes was requested by users and fire software vendors.	Expanded the code list for Street type to the full set of US Postal Abbreviations listed in the appendix of the NFIRS 5.0 Full Reference Guide.
195	12/19/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Basic , Street Type, page 66.	Some CAD/GIS systems use different Street Type Abbreviations. These were being rejected because they were not in the Data Dictionary	Removed the table based edit for Street Type codes. They system will now accept Street Type codes in addition to those listed in the Data Dictionary.
196	12/19/00	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Basic , Street Type, page 158. QRG, Page 6.	The Street Type code abbreviation for Lane was incorrectly listed as "LANE" rather than "LA".	Corrected the Street Type code for LANE to "LA" from "LANE".
197	12/20/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Hazardous Material Chemical Transaction, Record Type 1710, HazMat Chemical Sequence Number. Element Number 8, Page 149.	The HazMat Chemical Sequence Number was incorrectly listed as a field length of 3 instead of 2 in the Incident Flat File Transfer Format.	Corrected the field length for the HazMat Chemical Sequence Number from 3 to 2 for consistency with the paper forms and other sections of the documentation.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
198	12/20/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Arson Module, B Block, Street Address, Page 95.	The Edit Requirements showed one field for the entire Arson Street Address. The Flat File Transfer Format for the 1910 transaction splits this address field out into sub fields consistent with addresses in the rest of the system. The Edit Requirements should have been the same as the Flat File Layout fields for the Agency Address.	Corrected the Edit Requirements for Arson Agency Street Address to be consistent with the Flat File Transfer Format.
199	12/21/01	Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Page 129.	The Flat File Transfer Format on page 129 incorrectly specified that for reports of No Activity you should only send the Basic Incident Transaction (1005). Page 131 (the Index of Transactions) correctly states that record 1000 is the sole transaction required for reports of No Activity.	Corrected the inconsistency on how to report No Activity by changing the reference to the basic incident (1005) transaction on page 129 to: <b>"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"</b> .
200	12/22/01	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Fire Service Casualty module, Record Type 1500, Cause of Firefighter Injury, Field #26, Page 146.	The Flat File Transfer Format incorrectly specified The Max or Expected length for Field #26, Cause of Firefighter Injury as length "2 or 3" when it should be length "1 or 2".	Changed the Max field length for Cause of Firefighter Injury to length "1 or 2" to be consistent with the rest of the system documentation.
201	01/26/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Modules Rules Section.	There were requests that the section of the NFIRS 5.0 Website that documents the Incident Module Rules be included in the Design Documentation.	Added a Incident Module Rules section to the Design Documentation and the Excel Workbook.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
202	01/26/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Data Dictionary, Fire Module, Block F2, Equipment Power Source, Page 176.	There is a logical gap in the data collection for this element. The two codes affected are: "11 Electrical Line voltage (> 50 volts)"; "12 Electrical line voltage (< 50 volts)." There is a logical gap at 50 volts.	Changed the 'greater than' symbol (>) to 'greater than or equal to' (>=) in code 11.
203	01/26/00	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Data Dictionary, Fire Module, Mobile Property Type Codes, Block H2, Page 179.	There are logical gaps in the data collection for this element. The two codes affected are: "42 Boat, ship, or > 65 ft but < 1,000 tons", "43 Cruise liner or passenger ship > 1,000 tons". There is a logical gap at 65 feet and at 1000 feet.	Changed the 'greater than' symbols (>) to 'greater than or equal to' (>=) in codes 42 and 43.
204	01/26/01	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Data Dictionary, Fire Module, Mobile Property Type Codes, Block H2, Page 179.	There is a logical gap in the data collection for this element. The two codes affected are: "51 Personal aircraft less than 12,500 lb. gross wt."; "52 Personal aircraft > 12,500 lb. gross wt." There is a logical gap at 12,500 lbs.	Changed the 'greater than' symbol (>) to 'greater than or equal to' (>=) in code 52.
205	01/26/01	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Data Dictionary, Basic Module, Hazardous Materials Release Codes, Block H3, Page 161.	There is a logical gap in the data collection for this element. The two codes affected are: "8 Paint - spills less than 55 gallons"; "0 Special hazmat actions required or spill >= 55 gal." There is a logical gap at 55	Changed the 'greater than' symbol (>) to 'greater than or equal to' (>=) in code 0.
<b>The following changes apply to the 2001.2 cycle of the Design Specification released in July 2001.</b>					
206	02/02/01	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Basic , Street Type, page 159. QRG, Page 6.	There are duplicate codes for several Street Types. The code for "Lane" was incorrectly listed as "LA". It should be "LN".	Removed duplicate codes for: Park, Pike Row and Walk. Corrected code "LA" for "Lane" to the correct abbreviation of "LN".

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
207	07/10/01	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 2, Page 98.	Edit rules for the Exposure Number field were made more clear by adding a note to the existing relational edit.	Added a note to Relational Edit 2 indicating specifically that you may not have an exposure fire incident in the system (exposure number greater than 000) without having first entered a main fire incident (exposure number 000).
208	07/10/01	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, System Field Security Settings, Page 111.	The Remarks field may contain sensitive data and therefore the default security setting needed to be changed so that the field would not be released beyond the state level.	Changed the default field security setting for the remarks field to "State" from "National".
209	07/10/01	Design Documentation.	Design Documentation, Query and Reporting Requirements, Fire Cause Categories Report Page 317.	The Fire Cause Categories Report used a draft methodology for the categories that was developed by USFA. It is now being revised to use a more accurate reporting methodology jointly developed by statisticians from USFA, CPSC, NFPA and by fire data analysts from the NFIC organization.	The methodology for developing the cause categories in the Fire Cause Categories Report has been removed from the documentation pending revision.
210	07/11/01	Design Documentation.	Design Documentation, NFIRS 5.0 Software Certification Procedure, Page 310.	NFIRS 5.0 Software Certification Procedure section has been revised to reflect that the USFA will no longer certify vendor transaction files as meeting the national NFIRS 5.0 standard.	Revised the NFIRS 5.0 Software Certification Procedure section of the Design Documentation.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
<b>The following changes apply to the 2002.1 cycle of the Design Specification released in January 2002.</b>					
211	01/22/02	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Basic , State Abbreviations, page 162. QRG, Page 111.	An "Other" code was needed for state abbreviations to account for mutual aid calls into foreign countries like Canada and Mexico	Revised the NFIRS 5.0 Data Dictionary to add "OO Other" to the State Abbreviation codes
212	01/22/02	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Basic , Incident Type, page 163. QRG, Page 11.	Specific Biohazard Incident Type codes were needed to better address such incidents in the aftermath of September 11.	Revised the NFIRS 5.0 Data Dictionary to add Incident Types, "451 Biological hazard, confirmed or suspected", "672 Biological hazard investigation, none found", "751 Biological hazard, malicious false report".
213	01/22/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Basic , Incident Location (Number/Milepost), page 66.	The first occurrence of Number/Milepost for the Incident Location Address was listed in the Edit Requirements as type "Numeric" (N) when it was shown in other areas in the documentation as type "Text" (X). This was an inconsistency and the field should have been a type of "Text" in the location address as well.	Revised the NFIRS 5.0 Edit Requirements to show Number/Milepost in the NFIRS Location Addresses (Block B) as a type of "Text" (X).
214	01/22/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Basic , Incident Location (Cross Street/Directions), page 66.	If the Street Type is "Intersection" then the Cross Street/Directions field should be required but there was nothing to that effect listed in the edit requirements.	Added an entry to the "Notes" section for Cross Street/Directions" that says, "Required when Street Type is Intersection".

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
215	01/22/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Basic , Controlled Date & Controlled time, page 67.	The Controlled Date and Time should not be required for Wildland fires when aid is given. This was not noted in the edits.	Changed the notes for Controlled Date and time to indicate that these fields are required for Wildland fires unless aid is given.
216	01/22/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit #70, page 101.	This relational edit was too restrictive. In cases where there are buildings damaged by scorching/charring or by water from suppression activities these should be counted in the total number of buildings involved on the Fire module. This damage to other buildings can occur without actual flame spread (exposures) and Relational Edit #70 prevented these buildings from being counted in the total number of buildings involved.	Removed Relational Edit #70.
217	01/22/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit #76, page 101.	There was an error in relational Edit #76. The second part of the edit should read "If Detector Operation = 2 THEN L6 Detector Failure Reason is not allowed." There should have been an "equal" condition there instead of a "not equal" condition.	Corrected Relation Edit #76 to read: <b>"If Detector Operation = 3 THEN L6 is required. If Detector Operation = 2 THEN L6 Detector Failure Reason is not allowed"</b> .
218	01/22/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits #159, #160, page 105.	(Cosmetic). The paper form Block designators were missing from the two edits.	Added the respective Blocks (G1 & G2) to the edits.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
219	01/22/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits #165, page 105.	When the Incident Type is "611 Cancelled en-route", Casualties and Property Use are not required. This edit was missing from the documentation.	Added Relational Edit 165: "If Incident Type is "611 Cancelled en-route" then the Property Use and Casualty fields are not required on the Basic Module".
220	01/22/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Field Security Levels, Arson Module, Agency Street Address, page 125.	Agency Street Address in the Arson Module was shown here as a single 30 character field rather than as a formatted address broken into several fields as it should have been (and as it is shown elsewhere in the documentation).	Added formatted address fields to the Field Security levels section for "Agency Referred To" to make it consistent with the addresses in the rest of the design documentation:
221	01/25/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Basic , Property Use, page 70.	Property Use should not be required when Mutual or Automatic Aid is given.	Changed the notes for Property Use to indicate that the field is not required when Aid is given.
222	01/25/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits #127 and #128, page 103.	These two relational edits were too restrictive. In cases where the initial provider had a high level of training but the care needed was only basic care, the two edits would not allow the correct data entry.	Removed Relational Edits #127 and #128.
223	01/29/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits #155 and #156, page 105.	These two relational edits were too restrictive. In cases where the user entered a combination of Fire and EMS casualties on the Basic Module but did not complete the optional EMS module a critical error was being generated when it should not.	Changed relational edits #155 and #156 to specify warning messages be generated instead of critical messages.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
224	01/29/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Module Rules, Rules #18, #19, page 107.	These rules needed to be adjusted to accommodate the inclusion of the new Incident Type 451 (Biological hazard, confirmed or suspected).	Changed Incident Rule #18 to Allow EMS or the new Incident Type 451 and rule #19 to allow the HazMat module for the new Incident Type 451.
225	01/29/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits #13, page 98.	This relational edit needed to be adjusted to accommodate the inclusion of the new Incident Type 451 (Biological hazard, confirmed or suspected).	Changed Incident Rule #19 to allow the EMS module be completed for Incident Type 451.
<b>The following changes apply to the 2002.2 cycle of the Design Specification released in July 2002.</b>					
226	07/08/02	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Basic , State Abbreviations, page 162. QRG, Page 117.	Add 'DD Department of Defense' to the State Abbreviations list codes in the Data Dictionary.	Revised the NFIRS 5.0 Data Dictionary to add " <b>DD Department of Defense</b> " to the State Abbreviation codes
227	07/08/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit, New RE #166, page 106.	State code 'OO' should never be used as a valid state code entry for the Incident Header or FDID Header transactions (record types 1000, 2000, 2010, 2020). This code should only be used for Aid Given outside the United States. An edit did not previously exist for this condition. <b>NOTE: The DD (Department of Defense) state code is a valid state code for these transaction types.</b>	Added new relational edit (#166) that does not allow 'OO' to be used as a valid state code entry for the Incident Header and FDID Header transaction records (1000, 2000, 2010, 2020 transactions).
228	07/08/02	Design Documentation, Excel Conversion Tables.	Conversion Tables, Fixed Property Use Table 3-44, page 254.	The conversion rule for 4.1 FPU code '409' to 5.0 code '400' conversion was missing from the table.	Added the code 4.1 '409' to 5.0 code '400' conversion rule to the spec conversion table for Property Use.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
229	07/08/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit, New RE #167, page 106.	If the incident is not an exposure incident (exposure number = 0) the system should not allow the entry of code 71 (Exposure) in the Factors Contributing to Ignition field on the Fire Module.	Added a new edit rule that does 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 = 0.
230	07/08/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit, New RE #168, page 106.	A user warning message is needed if one of the Basic incident Action Taken codes is 93 (Cancelled en-route) and the Incident Type is not 611 (Cancelled en-route).	Added a new edit rule to produce a warning message error if one of the Basic incident Action Taken codes is 93 (Cancelled en-route) and the Incident Type is not 611 (Cancelled en-route).
231	07/08/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer format , EMS Patient Transaction (Type 1600), Element Number 23, page 149.	Pre or Post Arrival Arrest is a multiple coded field. The comment did not reflect that.	On the Flat File Layout, for Transaction type 1600 (EMS), added "MC (Max of 2)" to the comments field for the 23rd data element, Pre or Post Arrival Arrest.
232	07/08/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Basic Module , Incident Type, page 66.	The Edits Requirement entry for Incident Type states that must comply with relational edits "7-20, 107". This is incorrect and needs updating because of the renumbering of relational edits and the addition of relational edit 165 in a prior spec cycle.	The Edits Requirement entry for Incident Type was changed to "7-20, 106, 165".
233	07/08/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit, RE #87, page 102.	Relational Edit #87 incorrectly stated: "If General Location (M1) = 1 then Blocks M3, M4 and M5 are not required". It should say instead: "If General Location (M2) = 1 then Blocks M3, M4 and M5 are not required".	Changed Relational Edit #87 to say: "If General Location (M2) = 1 then Blocks M3, M4 and M5 are not required".

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
234	07/08/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit, RE #142, page 104.	Need to modify Relational Edit 142 to add clarification there that 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.	Modified Relational Edit 142 to add clarification that 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.
235	07/08/02	Design Documentation, Excel Conversion Tables.	Conversion Tables, New Mutual Aid Table 3-42, page 254.	The conversion for the 4.1 Mutual Aid field was missing from the conversion tables.	Added the conversion for the 4.1 Mutual Aid field to the conversion tables.
236	07/08/02	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, EMS Module fields, HazMat Module fields, Wildland Module fields, Apparatus Module fields, Personnel Module fields, Arson Module fields, pages 82-97.	The Relational Edit column references for most of these Module's fields were off by one due to a renumbering of the Relational Edits in a previous cycle release.	Updated the Relational Edit column for these fields to reference the correct Relational Edits.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
237	07/08/02	QRG	Quick Reference Guide (QRG), Structure Fire Module, page 54	The instruction in the QRG for the Structure Module which reads "Section I through M are required for Building Fires (Incident Types 111, 112, 120-123)" is incorrect. Section I1 on the Structure Fire Module is required for all Structure Fires (Incident Types 111, 112, 120-123). The rest of the module is required only if the Structure Type (Block I1) is 1 (Enclosed building) or 2 (Portable/mobile structure). This is essentially the 111 and 120-123 Incident Types. All the rest of the Structure Types fall into the 112 Incident Type and anything beyond I1 is not required for these.	Updated the instruction to read: <b>Section I1 is required for all Structure Fires (Incident Types 111, 112, 120-123). Sections I2 through M5 are required only for Building Fires (Incident Types 111, 120-123).</b>

**The following changes will be applied in the 2004.1 cycle of the Design Specification effective January 1, 2004.**

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
238	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit, RE #21, page 99, Incident Module Rule #6, page 107.	Relational edit #21 and Incident Module Rule #6 were incorrect in including Aid Given code 5 (Other Aid Given) in the edit/rule. The edit/rule states that if Aid Given code is 3,4 or 5 then the Basic Module need only be completed up through Block G1. Code 5 means that the receiving jurisdiction does not have a fire department and there will be no aid-received incident completed. Due to this, the information past Block G1 including the fire modules was being lost.	Relational edit #21 and Incident Module Rule #6 were corrected to remove the references to Aid Given code 5.
239	08/28/03	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Basic Module, Incident Type, page 164. QRG, Page 11.	An Incident Type was needed to cover situations where the FD arrives at the incident scene and does not find an emergency there was missing from the codes. This is a different Incident than "621 Wrong location".	Added new Incident Type: <b>622 No incident found on arrival at dispatch address</b>
240	08/28/03	SPEC-TABLE.XLS, Design Documentation	Design Documentation, Edit Requirements, Basic Module, Special Studies, page 68, System Field Security Levels, Basic Module, Special Studies, page 109.	In the documentation under the System Field Security Levels section and the Edit Requirements section the Special Study fields were both labeled as 4 Alpha characters when they should have been listed as 5 characters in length (as they are in the transaction file section).	Changed Special Study field length from 4 to 5 characters in the two relevant sections of the documentation.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
241	08/28/03	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Wildland Module , Federal Agency Code, page 239. QRG, Page 100.	The code list for Federal Agency Code in the Wildland module was not included in the Data Dictionary.	Added the code list for Federal Agency Code to the Data Dictionary.
242	08/28/03	BASIC FIRE STRUCTURE MODULES.XLS, Design Documentation.	Design Documentation, Conversion Tables, Property Use, page 253.	The conversion tables for Property Use shows hospitals (code 331 in 4.1) incorrectly converting to asylums (code 323 in 5.0), instead of to hospitals (code 331 in 5.0 is still hospital).	Corrected the 4.1 to 5.0 conversion tables for Property Use to convert 4.1 code 331 to 5.0 code 331.
243	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Fire Transaction (Record Type 1100), Human Factors, Element 22, page 141.	The Flat File Transfer Format section of the Design Documentation incorrectly stated that the max number of choices for Human Factors was 7 in the Fire Transaction. The correct number of choices is 8.	Corrected the Flat File Transfer Format to show 8 choices for Human Factors in the Fire transaction.
244	08/28/03	BASIC FIRE STRUCTURE MODULES.XLS, Design Documentation.	Design Documentation, Conversion Tables, Table 3-50, Equipment Involved in Ignition, page 270.	Equipment Involved in Ignition 4.1 code 32 incorrectly converted to code 656. It should instead convert to 117. 4.1 Equipment Involved in Ignition code 33 incorrectly converted to code 117. It should instead convert to 656. Equipment Involved in Ignition 4.1 code 44 incorrectly converted to code 214. It should instead convert to 215.	Changed the conversion for Equipment Involved in Ignition 4.1 code 32 to convert to code 117. Changed conversion for Equipment Involved in Ignition 4.1 code 33 to convert to code 656. Changed conversion for Equipment Involved in Ignition 4.1 code 44 to convert to code 215.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
245	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Incident Personnel Transaction (Record Type 1810), Element 14 (Rank), Page 153.	On page 153 in the Incident Personnel Transaction the field for Rank was incorrectly listed as a length of 6 instead of 10.	Changed the length of the Rank field in the Personnel Transaction to 10.
246	08/28/03	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Basic Module, Incident Type, page 163. QRG, Page 11.	An incident type was needed for EMS runs to motor vehicle accidents where no injuries were discovered.	Added new Incident Type: <b>324 Motor vehicle accident with no injuries.</b>
247	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit, RE #129, #130, #131, page 103.	Relational edits (129-131) incorrectly indicated that the Patient Status, Pulse on Transfer and EMS Disposition fields are required fields. They are not.	Corrected Relational edits 129-131 to state that Patient Status, Pulse on Transfer and EMS Disposition are not required fields.
248	08/28/03	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Fire Module, Area of Fire Origin, page 171. QRG, Page 38.	Area of Fire Origin code 68 was missing from the data dictionary although it was present in the conversion tables and in NFPA 901.	Added Area of Fire Origin code <b>"68 Enclosure with enriched oxygen atmosphere"</b> to the data dictionary.
249	08/28/03	BASIC FIRE STRUCTURE MODULES.XLS, Design Documentation.	Design Documentation, Conversion Tables, Type Material First Ignited, page 274.	Type Material First Ignited code 79 was converting to code 79 in the spec conversion table when it should have been converting to code 70. Code 79 does not exist in the version 5.0 data dictionary.	Changed the conversion table for Type Material First Ignited 4.1 code 79 to convert to 5.0 code 70.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
250	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits, RE #143, page 104.	The Last Unit Cleared time on the basic module is when the last unit clears the incident scene. The Apparatus/Personnel Clear Date/Time is when each individual apparatus is clear to go back in service. Relational Edit 143 incorrectly states that the Apparatus Clear Date/Time on the Apparatus/Personnel module cannot be later than the last unit cleared Date/Time on the Basic module.	Adjusted Relational Edit 143 to say: "Clear Date/Time cannot be earlier than the Alarm Date/Time, the Dispatch Date/Time or the Arrival Date/Time"
251	08/28/03	Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Addition, Deletion, Change and No Activity Transaction Flags Section, Page 129.	The Design Documentation incorrectly stated that the order of processing transactions types when all are contained in a single file is: Change, Delete, Add. The USFA Web page correctly states the order as: Delete, Add, Change. The correct order for processing if all three types are in the same file is Delete, Add, Change.	Modified the Documentation to reflect the correct order for processing transaction types as "Delete, Add, Change" when all are contained in a single transaction file.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
252	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Wildland Module, Township, page 89, Incident Flat File Transfer Format, Wildland Fire Transaction (Record Type 1300), Township, Element 10, page 144, System Field Security Levels, Wildland Module, Township, page 121	Along the very northern tier of the U.S., the Township codes are 3 digits in length. In the rest of the U.S. they are only 2 digits in length. The township field was too small to accommodate all possible township entries. In addition, the System Field Security Levels section incorrectly listed the field size as a length of 4.	Changed the Wildland module Township size from 2 to 3 in the Edit Requirements (Township Direction remains 1 character in length there). Changed the Township size in the Incident Flat File Transfer Format from 2.1 to 3.1. Changed the field size in the System Field Security Levels from 4 to 3.
253	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits, RE #169, page 106.	Data collection has shown numerous Age field entries in the range 125 to 999 years of age. In order to reduce bad age values, a warning message for Age field entries of more than 125 years has been added to the relational edits section.	Added new relational edit 169 which states: <b>If any NFIRS system Age field value is greater than 125, generate a non-critical warning.</b>
254	08/28/03	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Civilian Casualty Module, EMS Module, Arson Module, Race, Ethnicity, pages 186, 195, 247, QRG, Pages 60, 80 115.	In order to comply with the new federal standard as directed by OMB, the NFIRS Race and Ethnicity fields' codes have been revised as directed by OMB Policy Directive No. 15.	Revised all Race and Ethnicity codes in NFIRS to match the OMB federal standard (see the NFIRS website <a href="http://www.nfirs.fema.gov/news.htm">http://www.nfirs.fema.gov/news.htm</a> for more details).

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
255	08/28/03	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Structure Fire Module, Presence of Automatic Extinguishing System, page 185. QRG, Page 57.	A choice for "undetermined" was missing in the Data Dictionary for Presence of Extinguishing Systems. It was originally felt that firefighters would always know if an extinguishing system was present in the area of the fire but apparently this is not always the case. This was inappropriately forcing the code choice for this situation into the "none" category.	Added the code " <b>U Undetermined</b> " to the Presence of Automatic Extinguishing System on the Structure Fire Module in the Data Dictionary
256	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Wildland Module, Federal Agency Code, page 91.	The Acceptable Conditions column for Federal Code incorrectly listed "Numeric" instead of "Valid Code". The Relational Edits column incorrectly listed Relational Edit <b>#136</b> as applicable.	Changed the Acceptable Condition entry to "Valid Code". Changed the associated Relational Edits column entry to remove the reference to Relational Edit <b>#136</b> .
257	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format, Incident Person(s) Involved Transaction (Record Type 1050), Element 9 (Name Prefix), Element 13 (Name Suffix), Page 139.	The Name Prefix and Name Suffix fields were both incorrectly shown in the Incident Flat File Transfer format as Type X (text) fields when they are actually Type C (coded) fields as listed in the Data Dictionary. Name Suffix was incorrectly listed as a length of 4 rather than 3.	Changed the Name Prefix and Name Suffix fields from Type X to Type C in the Incident Flat File Transfer format. Also changed the Name Suffix field length from 4 to 3 there.
258	08/28/03	Design Documentation.	Design Documentation, Software Selection Issues, Page 338.	The section on Software Certification was out of date.	Updated the section on Software Certification to reflect the current USFA policy.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
259	08/28/03	SPEC-TABLE.XLS, Design Documentation, QRG.	Design Documentation, Data Dictionary, Many	As part of the process to create an updated and revised NFIRS 5.0 Complete Reference Guide, many editorial changes have been made to the code descriptors in the Data Dictionary. The codes numbers and meanings of the descriptors have not been changed but the text has been clarified in some cases or edited for consistency, spelling, typos, etc. These changes are indicated in the Spec-Table.xls file by a yellow background. New codes or additions are always indicated by a green background with red text.	Editorial cleanup of many code descriptors. In some cases, codes were also reordered if they were found to be out of sequence.
260	08/28/03	SPEC-TABLE.XLS, Design Documentation.	Design Documentation.	As a direct result of a resolution passed by the National Fire Information Council's (NFIC) general membership at their Annual Meeting in Salt Lake City, Utah, on October 21, 2002 the USFA will implement a specification change on January 1, 2004 to ensure that incidents that have been validated by the federal client tool would remain valid regardless of subsequent changes in the rules.	<b>UPDATE: THIS CHANGE POSTPONED UNTIL 2005 CYCLE.</b> The technical approach to best implement this system change and any resulting specification impact have not yet been fully determined as of this date. The technical approach may require a change to the Incident Flat File Transfer Format. As soon as the technical information is available, this log will be immediately updated and other documentation and information will be posted on the NFIRS website news page: <a href="http://www.nfirs.fema.gov/news.htm">http://www.nfirs.fema.gov/news.htm</a>

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
261	12/09/03	BASIC FIRE STRUCTURE MODULES.XLS, Design Documentation.	Design Documentation, Conversion Tables, Type Material First Ignited, page 274.	Conversions for Type Material First Ignited codes 61 and 62 were not properly capturing Christmas trees when the trees were cut trees or growing trees.	Made the following two changes to the conversion table for Type Material First Ignited: <b>If 4.1 Type Material Ignited = 61 then blank the Type Material field and set On-Site Material field #1 to 312. If 4.1 Type Material Ignited = 62 then blank the Type Material field and set On-Site Material field #1 to 310.</b>
<b>The following changes will be applied in the 2005.1 cycle of the Design Specification effective January 1, 2005.</b>					
262	09/08/04	SPEC-TABLE.XLS, Design Documentation.	System Field Security Levels, Wildland Module, Township, page 121, Edit Requirements, Wildland Module, Township, page 89.	DOCUMENTATION CORRECTION:: For previous change #252, the change log incorrectly stated that the Township field size in the System Field Security Levels was changed from 4 to 3. Instead, it should have changed from size 3 type X to 3.1 type F in that section and in the Edit Requirements to match the Flat File Transfer Format	Changed the Township field size from <b>size 3 to 3.1</b> in the Field Security section and the Edit Requirements.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
263	09/08/04	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat File Transfer Format: Name Prefix (Record Types 1050, 1055) and Name Suffix, (Record Types 1050, 1055, 1400, 1500, 2010). Also: Suffix and Prefix field Edit Requirements and Field Security Levels for Basic, Civilian Fire Casualty, Fire Service Casualty, Personnel modules.	DOCUMENTATION CORRECTION:: For previous change #257, in the Spec-Tables spreadsheets and in the Design Documentation, changes were made to the 'Incident Persons Involved' transaction but not to the other transactions involved. In addition, these changes were also not made in the Edits Requirements sections and Field Security Levels sections as they should have been for consistency. All 'Name Prefix' and 'Name Suffix' fields in NFIRS are coded fields with a length of 3.	Made Name Prefix and Suffix fields a type of "C" (coded) with a length of 3 in all instances in the file layouts, edits and security levels. The Name Prefix field exists in the Basic Incident Person/Entity Involved (1050) and Basic Incident Owner transactions (1055). The Name Suffix field exists in these transactions:  Basic Incident Person/Entity Involved (1050) Basic Incident Owner (1055) Civilian Fire Casualty (1400) Fire Service Casualty (1500) FD Information Personnel transactions (2010)
264	09/08/04	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, System Field Security Levels, Basic Module, Special Studies, page 109. Edit Requirements, Basic Module, page 68.	DOCUMENTATION CORRECTION: The Special Study Sequence Number, Special Study ID and the Special Study Code fields were not shown correctly in the System Field Security and the Edit Requirement sections. This has been changed to be consistent with the Incident Flat File Transfer section.	Added Separate Special Study Sequence Number, Special Study ID, and Special Study Code fields to the System Field Security and Edit Requirement sections with appropriate data types for consistency with the other sections of the design documentation.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
265	09/08/04	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, System Field Security Levels, Basic Module, Number/Milepost, page 108.	DOCUMENTATION CORRECTION: The "Number/Milepost" field was incorrectly listed as type "N" in the System Field Security levels section. It should have been type "X" instead.	For consistency, changed the field type for Number/Milepost in the System Field Security levels section to type "X"
266	09/08/04	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, System Field Security Levels, Personnel Module, Rank page 124. Edit Requirements, Personnel module, Rank, page 94.	DOCUMENTATION CORRECTION: The Rank field was incorrectly listed as type a length of 6 in the Edit Requirements and the System Field Security levels sections for the Personnel module. It should have been a length on 10 instead of 6 to be consistent with change #245.	Changed the length of the Rank field from 6 to 10 in the Edit Requirements and the System Field Security levels sections for the Personnel module.
267	09/08/04	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Data Dictionary, page 158.	DOCUMENTATION CLARIFICATION: A section was needed in the introduction to the Data Dictionary stating that the hierarchical code placeholders are not valid codes and should never be allowed for data entry.	Added intro section to the Data Dictionary explaining the use of hierarchical placeholder codes.
268	09/08/04	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Fire Module, Human Factors, Factors Contributing to Ignition, page 74.	Entry of values for the Human Factors Contributing to Ignition and the Factors Contributing to Ignition fields on the Fire Module were previously not required. These fields were not being completed which creates problems in determining fire causes. The fields are now required entries.	Changed the Human Factors section and the first Factor Contributing to Ignition field be required entries. For Human Factors, at east one entry (including "None") is required.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
269	09/08/04	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Fire Service Casualty Module, Severity, page 81.	Entry of values for the "Severity" field on the Fire Service Casualty Module were previously not required. This field was not being completed which prevented counting of fire service injuries and deaths. The field is now required.	Changed the "Severity" field edit to make it a required entry instead of an optional one.
270	09/08/04	SPEC-TABLE.XLS, Design Documentation, Paper Forms, CRG, QRG.	Design Documentation, Data Dictionary, Basic Module, Incident Address, <b>Location Type</b> , page 159, Relational Edits, <b>new RE #170</b> , page 106, Edit Requirements, Flat File Transfer Format (Record Type 1010, Element 19), Field Security Levels, Basic Module, <b>Cross Street or Directions</b> , pages 66, 137 and 108 respectively.	A new address Location Type code for the US National Grid has been added for the Incident Address. A new Relational Edit was needed for the entry of the National Grid coordinates to ensure it is entered in the Cross Street/Directions field when the "US National Grid" Location Type is selected.	<p><b>Added Location Type code 7 (US National Grid)</b> to the data dictionary and new <b>Relational Edit #170</b>. Changed the name of the "Cross Street or Directions" field to "<b>Cross Street, Directions or National Grid</b>".</p> <p><b>The United States National Grid - North American Datum 1983 (USNG-NAD83) with 1 meter precision is a 15 character field: 18SUJ0040196428</b></p> <p><b>A 10 meter precision is all that is required for NFIRS, so the entry may be shortened by 2, one off the easting and one off of the northing: 18SUJ00409642</b></p> <p><b>Optionally, data entry screens may separate the zone, 100k grid, and the easting/northing to make it perhaps easier on those unfamiliar with the format: 18S UJ 0040 9642</b></p>

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
271	09/08/04	SPEC-TABLE.XLS, Design Documentation	Design Documentation, Data Dictionary, Basic Module, Incident Address, State, page 159.	Added a state code of "NA" for "Native American" tribes data collection.	Added a state code of "NA" for "Native American" tribes data collection.
272	09/09/04	SPEC-TABLE.XLS, Design Documentation	Design Documentation, Incident Modules Rules, Rule #3, page 107.	Incident Module Rule #3 only applies if "Their FDID" and "Their Incident #" are entered on the basic module. In that case, the Aid Given code 5 condition will not apply since there is no aid receiving department. Thus, code 5 does not belong in the rule.	Removed the Aid Given code 5 condition from Incident Module Rule #3.
273	09/08/04	SPEC-TABLE.XLS, Design Documentation	Design Documentation, Data Dictionary, Fire Service Casualty Module, Injury Relationship to Structure, page 193.	The codes for the J2 block field "Injury Relationship to Structure" were missing from the Data Dictionary.	Added the codes for the J2 block field "Injury Relationship to Structure" to the Data Dictionary.
274	09/08/04	SPEC-TABLE.XLS, Design Documentation	Design Documentation, Data Dictionary, Fire Service Casualty Module, Usual Assignment, page 193, Taken To, page 189, Primary Part of Body Injured, page 191.	The Fire Service Casualty "Usual Assignment", and "Taken To" fields were missing "U" (Undetermined) "conversion only codes that should have been listed in the data dictionary. The Primary Part of Body Injured field was missing conversion only code 70 (other lower extremity). <b>NOTE: "Conversion Only" codes are used only by data analysts. They are created by the 4.1 to 5.0 conversion program and are never valid for data entry.</b>	Added missing "U" (Undetermined) "Conversion Only" codes for the "Usual Assignment" and "Taken To" fields to the Data Dictionary. Added missing conversion code 70 to Primary Part of Body Injured.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
275	09/08/04	SPEC-TABLE.XLS, Design Documentation	Design Documentation, Data Dictionary, Fire Module, On-Site Materials, page 171.	The Fire Module "On-Site Materials" field code listing in the Data Dictionary was missing "Conversion Only" code 800. <b>NOTE: "Conversion Only" codes are used only by data analysts. They are created by the 4.1 to 5.0 conversion program and are never valid for data entry.</b>	Added the missing code 800 "Conversion Only" code to the Data Dictionary codes for "On-Site Materials".
276	09/08/04	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Data Dictionary, Basic Module, Property Use, page 167.	The Basic Module "Property Use" field code listing in the Data Dictionary was missing "Conversion Only" code 250. <b>NOTE: "Conversion Only" codes are used only by data analysts. They are created by the 4.1 to 5.0 conversion program and are never valid for data entry.</b>	Added the missing code 250 "Conversion Only" code to the Data Dictionary codes for "Property Use".
277	09/08/04	NFIRS 5.0 Complete Reference Guide (CRG)	CRG: Chapter 4, page 4-3.	The description for when to complete the Wildland fire module did not include outside rubbish fires. In addition there was a redundancy in the listed incident types that was removed.	Modified the affected CRG section to say: This module should be completed for Incident Types 111, 112, 120-143, and 160-173, <del>and 170-173</del> found in Section C of the Basic Module. The optional Wildland Fire Module may be used instead of the Fire Module for Incident Types 140-143, 160, 170-173, 631, and 632. Users may also optionally complete the Fire Module for confined fires (Incident Types 113-118) <b>and for outside rubbish fires (Incident Types 150-155)</b> , although it is not required.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
278	09/08/04	BASIC FIRE STRUCTURE.XLS, FIREFIGHTER CASUALTY MODULE.XLS.	NFIRS 4.1 to 5.0 Conversion Tables, Basic Fire Structure: Table 3-43, Property Use, Table 3-50 Equipment Involved in Ignition, Table 3-45 On-Site Materials, Table 3-48 Mobile Property Type, Firefighter Casualty: Table 3-72 Primary part of Body Injured, Table 3-73 Patient Taken To.	CONVERSION CODE CORRECTIONS: 24 corrections to values in the 4.1 to 5.0 Conversion Tables needed correction: Property Use (7 corrections), Equipment Involved in Ignition (1 correction), On-Site Materials (10 corrections), Mobile Property Type (3 corrections), Primary part of Body Injured (2 corrections), Patient Taken To (1 correction).	Made 19 corrections to "Convert to" values in the conversion tables. See the BASIC FIRE STRUCTURE.XLS and FIREFIGHTER CASUALTY MODULE.XLS Excel spreadsheets for details. <b>NOTE: Please remember that vendor converted NFIRS 4.1 data should NEVER be sent to the state reporting authority or to USFA.</b>
279	09/08/04	SPEC-TABLE.XLS, Design Documentation	Design Documentation, Data Dictionary, Fire Service Casualty Module, Severity, page 189.	The Fire Service Casualty "Severity" field was missing the "U" (Undetermined) "conversion only" code that should have been listed in the data dictionary. <b>NOTE: "Conversion Only" codes are used only by data analysts. They are created by the 4.1 to 5.0 conversion program and are never valid for data entry.</b>	Added the missing "U" (Undetermined) "Conversion Only" code to the "Severity" field in the Data Dictionary.
<b>The following changes will be applied in the 2006.1 cycle of the Design Specification effective January 1, 2006.</b>					
280	09/02/05	Vendor Validation Tool	Vendor Validation Tool, Incident File Header Transaction (Record Type 1000), Element 9 (Version),	NFIRS Version Numbers other than '5.0' were appearing in vendor transaction files.	Added a validation edit to specify that the value in the 1000 transaction Version field must be "5.0".
281	09/02/05	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits, Basic Module, Incident Type, new RE #171, page 107.	Confined Fire Incident Types were being selected, even when significant Dollar Losses and/or fire deaths were occurring in these types of fires.	Added a new relational edit that specifies that confined fires must be limited to those fires that have no associated deaths or significant dollar losses.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
282	09/02/05	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Basic Module, Arrival Time Year, Relational Edits, new RE #172, page 107.	Incidents were appearing in the data with an Arrival Time year value greater than the Alarm Time year when the Incident Date was not December 31.	Added a new edit that specifies that the Arrival Time Year must be equal to the Alarm Time Year unless the Incident Date is December 31.
283	09/02/05	SPEC-TABLE.XLS, Design Documentation, CRG, QRG, Paper forms .	Design Documentation, Data Dictionary, Structure Fire Module, Presence of Automatic Extinguishing System, page 186.	The existing codes for this element did not include an option for partially sprinklered buildings.	Added a new code "2 Partial system present" for partially sprinklered buildings. <b>NOTE: If code = 1 or 2, the rest of the AOE sections should be completed (Relational Edit #79 clarified).</b>
284	09/02/05	SPEC-TABLE.XLS, Design Documentation, Vendor Validation Tool	Validation Tool, Apparatus Record (Transaction Type 1800), Personnel Record (Transaction Type 1810), Edit Requirements, Apparatus Module, Number of People, page 93.	The existing system validation edits did not contain an edit to make sure that the number of persons entered on the Apparatus module matched the number of personnel records entered for the incident.	Added a new system validation edit to ensure that the number of persons entered on the Apparatus module matched the number of Personnel Module records entered for the incident (if the personnel module is used).
285	09/02/05	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edit 47, Fire Module, Heat Source, page 101.	The Heat Source 80's code series could not be entered unless the incident exposure number was greater than 000. This caused problems reporting fireplace fires.	Removed Relational Edit #47
286	09/02/05	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits, Basic Module, Detector, Structure Fire Module Presence of Detectors, page 107.	Incidents were being submitted where the Detector field value on the Basic module indicated that a detector was present, but the Presence of Detectors field on the Structure Fire module said no detector was present.	Added new relational edit #173.
287	09/02/05	SPEC-TABLE.XLS, Design Documentation, CRG, QRG.	Design Documentation, Data Dictionary, Fire Module, Mobile Property Make, page 183.	The Mobile Property Make codes did not include codes for farm vehicles.	Added farm vehicle codes to the Mobile Property Make codes.

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
288	09/02/05	SPEC-TABLE.XLS, Design Documentation, CRG, QRG.	Design Documentation, Data Dictionary, Hazmat Module, Units: Capacity, page 236, Units: Released, page 237.	The HazMat Module units of measure and units released codes did not include codes for WMD biological and radioactive agents.	Added codes to units of measure and units released to include WMD biological and radioactive agents.
289	09/02/05	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Module Rules, Rule #19, page 108.	The HazMat module was not allowed for vehicle accidents with no injuries (Incident Type 324).	Modified Incident Module Rule #19 to include "324 Vehicle accident with no injuries".
290	09/02/05	SPEC-TABLE.XLS, CRG.	CRG, Fire Module, Equipment Involved in Ignition, page 4-29.	The CRG definition of Equipment Involved in Ignition was too exclusive.	Changed the CRG definition of Equipment Involved in Ignition to: <b>The piece of equipment that provided the principal heat source to cause ignition.</b>
291	09/02/05	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Module Rules, Rule #7, page 108.	Incident Module Rule #7 did not address aid given incidents and needed clarification..	Changed Incident Module Rule #7 to: <b>"The Fire Module is always required for the following Incident Types with the exception of aid given incidents: ..."</b>
292	09/02/05	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Module Rules, Rule #2, page 108.	Since Aid Given code 5 is for cases where there is no aid receiving department, it needed to be removed from this rule for consistency.	Changed Incident Module Rule #2 to:remove Aid Given code 5 from the rule.
<b>There were no changes applied for the 2007.1 cycle of the Design Specification effective January 1, 2007.</b>					
<b>The following changes will be applied in the 2008.1 cycle of the Design Specification effective January 1, 2008.</b>					
293	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Module Rules, Rule #7, Page 108. Relational Edits, RE #10, Page 99.	Incident Type 100 was being widely used to bypass the fire module inappropriately.	Modified Incident Module Rule #7 and Relational Edit #10 to reflect that the Fire Module is now required for Incident Type 100.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
294	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, Basic Module, Data Dictionary, Actions Taken, Page 166.	Some departments were using incident type 100 to record fires that were out on arrival because there was no action taken code to identify action taken at these incidents.	Added new Action Taken code 87 (Investigate fire out on arrival).
295	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, System, All NFIRS age fields, Relational Edits, new RE #174, Page 107.	Negative age values were appearing in the NFIRS age fields.	Added new system relational edit #174 to prevent entry of negative numbers in system age fields: <b>If any Age field value in any module &lt; 0, a critical error is generated.</b>
296	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Flat File Transfer Format, EMS Module, Field 23, Pre or Post Arrival Arrest, Page 150	Pre or Post Arrival Arrest showed Max or Expected length 1 or 2 MC. It should not have been listed as Multiple Choice (MC) there. It's not a multiple choice field.	Deleted the reference to Multiple Choice (MC) in the Flat File Transfer Format for the EMS Pre or Post Arrival Arrest field.
297	09/04/07	CRG	CRG, Basic Module, Arrival Time, Page 3-32.	Page 3-32 of the CRG stated that Arrival time should be the same as last unit cleared time. The edit specifications state that Arrival Time is required when incident type is not equal to 611. The two statements conflicted for cancelled en-route incidents.	Corrected page 3-32 of the CRG to mention that Arrival Time entry is not required for incident type 611 (cancelled en-route) incidents.
298	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, Data Dictionary, Basic Module, Name Suffix, Page 169.	There was a request for Name Suffix: to add V - Fifth.	Added V (the fifth) code to Name Suffix.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
299	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits 142 and 145, Apparatus/Personnel Module, Arrival Time, Page 105.	Two existing relational edits needed clarification. A fire department may have two apparatus called out and one is cancelled en-route before the other apparatus arrived at the scene. If the report reflects the true times for each piece of apparatus, the cancelled en-route apparatus should not cause an error if the incident arrival time in the basic module reflects the arrival time of the truck that went to the scene and this is after the time recorded by the cancelled en-route vehicle.	Changed RE #142 and RE #145 to make an exception when the primary apparatus action taken is "cancelled en-route".
300	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, Data Dictionary, Fire Module, Type of Material First Ignited, Page 174.	"Ethanol" needed to be added to the Fire Module - Type of Material First Ignited codes.	Added new Type of Material First Ignited code: <b>28 Ethanol</b>
301	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, Data Dictionary, Fire Module, Cause of Ignition, Page 176.	Cause of Ignition code 0 (Cause, other) is used only for exposure incidents or 4.1 conversion. This code has been selectable by the user for base incidents, but it should not be selectable. Cause of Ignition "other" should not be included in Software Pick lists as a valid entry.	Removed Cause of Ignition code 0 from the CRG code list and modified the design documentation code descriptor to indicate that the code is system generated and should never be allowed for data entry by NFIRS users.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
302	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Basic Module, Arrival Time Year, Relational Edits, new RE #175, page 107.	Incidents with Incident Type='112' (fires in structure other than a building) entered were having the structure type on the Structure Fire Module entered as code 1 or 2 (buildings). A new relational edit was needed to prevent this.	Added new relational edit 175: <b>If Incident Type = 112, the Structure Type field entry on the Structure Fire module cannot be a 1 or a 2.</b>
303	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Flat File Transfer Format, Vendor ID, Software ID, Page 130	Clarification was needed for the Vendor ID and Software ID in the flat file transaction section of the Design Documentation to state there that the alphas have to be uppercase.	Modified the description of the Vendor ID and Software ID in the flat file transaction section to state that they need to be upper case values.
304	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Basic Module, Property Use, Relational Edits, new RE #176, page 107.	Property use for dormitories relies on Mixed Use to distinguish the type of dormitory but Mixed use was not required and was not being entered.	Added new Relational Edit 176: <b>If Property Use = 464 then the Mixed Use Property field is required</b>
305	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Basic Module, Arrival Time Year, Relational Edits, Relational Edit #140, page 107.	Relational Edit #140 needed clarification.	Clarified Relational Edit 140 to: <b>If Distance From Right of Way is entered, then Type of Right of Way is required.</b>
306	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, HazMat Module, Data Dictionary, Factors Contributing to Release, Page 238.	Reports were received that anhydrous tanks valves have been left on because of burglaries for meth labs. A code was needed in release factors to cover this type of situation.	Added new HazMat module Factors Contributing to Release code <b>49 Criminal Activity.</b>

## NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
307	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, Structure Fire Module, Data Dictionary, Building Status, Page 185.	Clarification (CRG and data dictionary) was needed for building status for customarily occupied buildings with no one present at the time of the fire.	Changed the descriptor for code 2 from "Occupied and operating" to "In normal use". The full CRG descriptor was changed to: <b>In normal use. Includes properties that are closed or unoccupied for a brief period of time, such as a business closed for the weekend or a house with no one at home."</b>
308	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, Fire Module, Data Dictionary, Area of Fire Origin, Page 173.	Needed to reword area of origin code 23 to begin with dining room to make the most common choice the most prominently shown.	Reworded Area of Origin Code 23 to: <b>Dining room, cafeteria, bar area, beverage service</b>
309	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, Fire Module, Data Dictionary, Mobile Property Type, Page 183.	Needed to reword mobile property type 22 to begin with pickup truck to make the most common choice the most prominently shown.	Reworded Mobile Property Type 22 to: <b>Pickup truck, hauling rig (non-motorized)</b>
310	09/04/07	SPEC-TABLE.XLS, Design Documentation, CRG.	Design Documentation, Fire Module, Data Dictionary, Equipment Involved in Ignition, Page 180.	Novelty lighters have become a significant fire issue nationally in recent years. A new code was needed to track this equipment in NFIRS.	Added new code <b>877 Novelty lighter</b>
311	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Basic Module, Arrival Time, Relational Edits, new RE #177, page 107.	A new edit rule was needed to help prevent common mistakes in entering Alarm and Arrival times.	Added new Relational Edit 177: <b>If Arrival Time is 20 minutes or more after the Alarm Time, generate a general warning level error.</b>

### NFIRS 5.0 Design Documentation Changes

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312	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Fire Module, Number of Buildings Involved, Page 73, Structure Fire Module, Fire Spread, Page 77.	In The Spec-Table.xls and Design Documentation, Edit Requirements sheet, Number of Buildings Involved field and the Fire Spread field: Relational Edit #70 was still being referenced although Relational Edit # 70 was removed in 2002. The Design Doc had the same references.	Corrected the Number of Buildings Involved field and Fire Spread field entries in the Edit Requirements to remove the references to Relational Edit #70.
313	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, EMS Module, Provider Impression, Page 83	Design documentation and Spec-Table.xls Edit Requirement sheet: The Provider Impression edit requirement was still referencing Relational Edits 129, 130, 131 which were removed in a previous spec change cycle.	Corrected the Provider Impression field in the Edit Requirements to remove the references to Relational Edits 129, 130 and 131.
314	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Fire Module, Checkbox for Fire Confined to Object of Origin, Page 74	Clarification was needed for the Checkbox for Fire Confined to Object of Origin in the Edit Requirements field entry.	Added to the Notes for the Checkbox for Fire Confined to Object of Origin: <b>If left blank, then Structure Fire Module J2 Fire Spread Codes 2, 3, 4 are available for the J2 field.</b>
315	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, EMS Module, Time Arrived at Patient, Relational Edits, RE #119, page 104.	The Time Arrived at Patient on EMS module may be earlier than the Basic Module Arrival Date and Time if non-department care is provided.	Removed Relational Edit #119

### NFIRS 5.0 Design Documentation Changes

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316	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Fire Module, Year (Mobile Property and Equipment), Pages 75 and 76, HazMat Module, Year (Mobile Property Involved in Release, Equipment Involved in Release), Page 88	A better edit was needed on the high end for a valid year in the Mobile Property Year, Equipment Year fields on the Fire Module and the Mobile Property Involved in Release and Equipment Involved in Release fields on the HazMat module. A more restrictive range (system edit) was needed to catch typos.	Added an edit check for Mobile Property Year And Equipment Year fields in the Fire and HazMat modules in the Edit Requirements: <b>Upper entry range is limited to the current year + 1</b>
317	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Edit Requirements, Apparatus and Personnel Modules, ID of Apparatus or Resource, Pages 93 and 94	Spec-Table.xls sheet for Edit Requirements and the Design Documentation shows the ID of Apparatus or Resource field as required for Apparatus/Personnel Modules. ID of Apparatus or Resource is not a required field.	Deleted the references to ID of Apparatus or Resource being required in the Edit Requirements.
318	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Incident Flat file Transaction Format, Record Type 1000, Version, Field #9, page 136.	NFIRS Version format field is specified in the documentation as a 2.2 float but the system only allows 1.1 format. When Change # 280 was implemented in 2006, the documentation should have been updated to reflect the field spec.	Changed Version to size 1.1
319	09/04/07	SPEC-TABLE.XLS, Design Documentation	Design Documentation, Basic Module, Property Loss, Relational Edits, RE #160, page 106.	Modify Relational Edit 160: warning for Property Loss or Contents Loss over 2 million	Changed Relational Edit #160 from \$500,000 to \$2,000,000

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
320	09/04/07	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Wildland Module, Total Acres Burned, Incident Flat file Transaction Format, Record Type 1300, Field #35, Page 146, Edit Requirements, Page 91	Wildland Module Acres Burned field was a float format, with a 9.1 max length. Users requested a change to size 9.2 in order to capture data with more precision to less than a 1/10th of an acre.	Changed field size from 9.1 to 9.2
321	09/04/07	Change Log notation.	Design Documentation, Data Dictionary, Fire Service Casualty Module, Protective Equipment Problem, Page 195.	"NN" is not a valid code in the Fire Service Casualty Module's Protective Equipment Problem field. Code NN in the Data Dictionary was removed in from the Data Dictionary, Design Docs and CRG in the 2004 cycle but was not documented in the change log until now due to an oversight.	This change was made in the CRG and Design Documentation in the 2004 cycle but was not documented in this log.
<b>The following changes will be applied in the 2009 cycle of the Design Specification effective January 1, 2009.</b>					
322	09/15/08	Design Documentation, SPEC-TABLE.XLS, Validation Tool.	Design Documentation, Relational Edit #178, page 107 and Section 3, page 23 and page 257.	NFIRS 4.1 data Collection is in sunset status effective January 1, 2009. Going forward, 4.1 data is no longer collected or accepted in the NFIRS system. Changes to the 4.1 data collection are also noted in the Design documentation and CRG.	Added notes about the 4.1 data sunset to 2 sections of the Design Documentation. Added new Relational Edit #178: <b>NFIRS 4.1 formatted incidents (4.1 transaction file format and 4.1 Master File format) with an incident date later than 12/31/2008 are rejected from conversion/import with a critical error. Any converted 4.1 incidents with an incident date later than 12/31/2008 are rejected from import with a critical error.</b>

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
323	09/17/08	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Fire Module, Edit Requirements, Notes for Checkbox for Fire Confined to Object of Origin, page 74	The edit note for Change #314 in the previous change cycle incorrectly omitted code 5 "Spread beyond building of origin" from the J2 field list there. The note also needed further clarification for this field.	Corrected the edit notes for the checkbox for Fire Confined to Object of Origin to include code 5 and added further clarifying instructions: <b>1) If the Checkbox for Fire Confined to Object of Origin is left blank, then Structure Fire Module J2 Fire Spread Code must be entered and Codes 2, 3, 4, 5 are available for the J2 field.</b> <b>2) If checked, the Structure Fire Module J2 Fire Spread Code must be defaulted to "1".</b>
324	09/18/08	SPEC-TABLE.XLS, Design Documentation.	Design Documentation, Relational Edits 142 and 145, Apparatus/Personnel Module, Arrival Time, page 105.	Change Number #299 in the previous change cycle (which stated that two existing relational edits (#142, #145) needed clarification) contained an error. The time field referred to there should be the Cleared Time and not the Arrival Time. Arrival Time is not collected for apparatus cancelled en-route but Cleared Time is. The two edits needed correction to reflect this.	Changed existing relational edits (#142, #145) to: 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 <b>Cleared</b> Time of any unit/apparatus cannot be earlier than the Arrival Time entered on the Basic Module unless the unit/apparatus was cancelled en-route.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
325	09/19/08	CRG.	CRG, Appendix C, page 10.	CRG appendix C-10 listed state codes for Canada and Mexico that are not part of the valid system codes. These needed to be removed for consistency.	Removed the Canadian and mexican "state" codes from CRG appendix C.
326	09/22/08	CRG.	CRG Chapter 4, Fire Module, page 4-3.	The paragraph that references what Incident Type codes require the fire module did not reference Incident Type code 100. As per the 2008 change cycle, Incident type code 100 now requires the fire module.	Added Incident Type 100 to the list of incidents on page 4-3 requiring completion of the Fire Module in the CRG.
327	09/24/08	Design Documentation	Design Documentation, Fixed Property Use Conversion Table 3-45, page 274, Property Use 933	In the 4.1 conversion tables the Fixed Property Use Conversion On-Site Materials table referred to Incident Type code 174 in the Product Status column for 4.1 Fixed Property Use 933. This was an error and should instead be code 164 which is a mailbox fire. The comment there was to note that a 4.1 fire incident with a property use of 933 (mailbox) gets converted to a mailbox fire incident type 164 in NFIRS 5.0.	Changed referenced Incident Type code in the "Product Status" column note for Property Use 933 from 174 to 164.

### NFIRS 5.0 Design Documentation Changes

Change Number	Change Date	Documents Affected	Location In Design Document	Description of Problem	Correction Description
328	09/27/08	SPEC-TABLE.XLS, Design Documentation, Validation Tool.	Design Documentation, Incident Module Rules, Relational Edits, RE #39, page 100.	Change number 293 was incorporated into the NFIRS 5.0 Specification on January 01, 2008 to require the NFIRS-2 Fire form with Incident Type 100 Fire, other. However, section H2, Detector Alerted Occupants, was still required in the validation tool for Incident Type 100 even with this change. This was an oversight. In addition, Relational Edit #39 should have been modified to remove the reference to Incident Type 100.	Revised the Validation Tool rule for Block H2 Detector to no longer require entry for incident type 100. Corrected RE #39 to remove the reference there to Incident Type 100.