### National Burn Center Reporting System Overview

The U.S. Consumer Product Safety Commission (CPSC) recently developed the National Burn Center Reporting System (NBCRS) in cooperation with the American Burn Association and Shriners Hospitals for Children.

The NBCRS is a surveillance system that collects data about clothing-related burn injuries to children under age 15 from the 105 U.S. burn centers that treat children. These incidents involve the ignition, melting or smoldering of clothing. CPSC enforces the Standard for the Flammability of Clothing Textiles (for general wearing apparel) and two Standards for the Flammability of Children's Sleepwear.

In its first NBCRS report, CPSC staff analyzed 209 incidents, involving 213 victims, associated with clothing-related burn injuries to children under 15 submitted by 44 burn centers from March 2003 to June 2004. Two children died from the burns. Three-quarters of the children were boys. The youngest child was two months old; the oldest was 14 years old.

Of the 209 reported incidents, 36 involved clothing worn at some time for sleeping. Most of the clothing worn for sleeping was daywear subject to the Standard for the Flammability of Clothing Textiles, but not subject to the flame resistance requirements of the Standards for the Flammability of Children's Sleepwear. Eight of the 36 incidents were believed to have involved traditional sleepwear garments subject to the children's sleepwear standards. Two of these eight garments were available for collection through the NBCRS and appear to comply with the federal standards for children's sleepwear.

The Standards for the Flammability of Children's Sleepwear are designed to protect children from burns by requiring that children's sleepwear be flame-resistant (FR). Amendments to the children's sleepwear standards in 1996 exempted tight-fitting children's sleepwear and infant garments sized 9 months or smaller from the FR requirements.

Overall findings from the NBCRS data include the following major points.

- Of the 213 victims, 179 were injured while wearing daywear. Shirts, pants and combinations of garments were most frequently involved in the incidents.
- No incidents appear to have involved tight-fitting children's sleepwear or infant garments sized 9 months or smaller.
- The most frequent ignition source was an outdoor fire, involved in 62 of the 209 incidents, followed by lighters in 37 of the incidents.
- More than one-half (107) of the 209 incidents involved flammable liquids. Boys, ages 10 to 14, comprised most of the victims. Many of these incidents were also associated with outdoor fires. Gasoline was the most frequently reported flammable liquid involved in these incidents.



# U.S. Consumer Product Safety Commission National Burn Center Reporting System

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Debra S. Ascone Statistician Division of Hazard Analysis 301-504-7403

This analysis was prepared by the CPSC staff, has not been reviewed or approved by, and may not necessarily reflect the views of, the Commission.

#### **Executive Summary**

The National Burn Center Reporting System (NBCRS) is a surveillance system designed to capture clothing-related burn injuries to children under 15 years old treated in burn centers in the United States.<sup>1</sup>

Of the 105 burn centers in the United States that treat children, 92 agreed to participate in the NBCRS. During one full year of implementation, 44 burn centers submitted reports of children under 15 years old who were burned when their clothing ignited, melted or smoldered. The burn centers that agreed to participate in the NBCRS but did not report any incidents stated the reason for non-submission was that the burn center did not treat any cases within the scope of the data collection.

From March 2003 through June 10, 2004, 209 incidents were reported through the NBCRS involving children who were burned in clothing-related incidents.

Two hundred thirteen children were involved in the incidents, two of whom died as a result of the burn injuries. Three quarters of the involved children were males. The youngest child involved in the incidents was 2 months old and the oldest child was 14 years old, which was the age at which data collection stopped.

In 36 incidents, the children were injured while wearing clothing that was at some point worn for sleeping. The majority of these incidents, 19, involved daywear worn for sleeping. An additional three incidents involved children wearing daywear and either underwear or diapers.

Eight of the 36 clothing-worn-for-sleeping incidents involved sleepwear that appears to be subject to Standards for the Flammability of Children's Sleepwear. Amendments to the children's sleepwear standards in 1996 exempted tight-fitting children's sleepwear and infant garments sized 9 months or smaller from the requirements for flame resistance. There were no reports of incidents involving garments that appear to be tight-fitting children's sleepwear or infant garments sized 9 months or smaller.

One hundred forty-six of the 209 incidents involved clothing not worn for sleeping. Of these incidents, the most frequent scenario was a child playing with a lighter, followed by a child standing too close to an outdoor fire. The children injured in these incidents were most frequently burned when their shirt ignited.

Over half of the 209 incidents involved accelerants that were spilled on or near the ignition source or intentionally used with the ignition source. Most of the incidents involving accelerants were associated with outdoor fires including campfires, bonfires, trash fires and brush fires among other uncontained outdoor fires.

In summary, accelerants were a frequent factor in the incidents (107 of 209) reported in the first year of the NBCRS data. Items that appear to be subject to the children's sleepwear standards were reported as involved in 4 percent of the incidents (8 of 209) and there were no garments that appear to be either tight-fitting sleepwear or infant garments sized 9 months or smaller involved in the incidents.

<sup>&</sup>lt;sup>1</sup> This analysis was prepared by the CPSC staff, has not been reviewed or approved by, and may not necessarily reflect the views of, the Commission.

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### OVERVIEW

In response to inconsistencies in the reported number of clothing-related burn injuries to children, the Consumer Product Safety Commission (CPSC) in cooperation with the American Burn Association and Shriners Hospitals for Children developed the National Burn Center Reporting System (NBCRS). The NBCRS is designed to capture clothing-related burn injuries to children under 15 years old treated in U.S. burn centers.

This report analyzes the data from the first complete year of data collection through the NBCRS. Information about the victims, the scenarios of the incidents, and the types of clothing worn during the incidents is discussed.

This report also discusses the development of the NBCRS and details the history of the clothing textile and children's sleepwear flammability standards. The clothing involved in the incidents reported through the NBCRS, unless purchased by the consumer outside of the U.S., should comply with one of these standards.

### BACKGROUND

### I. FLAMMABILITY STANDARDS

### A. General Wearing Apparel

### i. Purpose

The Standard for the Flammability of Clothing Textiles (16 CFR Part 1610) is intended to reduce the danger of injury and loss of life by providing a national standard method of testing and rating the flammability of textiles and textile products for clothing, thereby discouraging the use of dangerously flammable clothing textiles. By setting requirements for three classes of flammability of clothing and textiles, the standard acknowledges that the most dangerously flammable fabrics are unsuitable for use in clothing because of their rapid and intense burning. The standard exempts most hats, gloves, footwear, and all interlining fabrics.

### ii. History

In 1953 Congress enacted the Flammable Fabrics Act (FFA) and amended it in 1954 prohibiting the importation, manufacture for sale, or the sale in commerce of any article of wearing apparel, which is "so highly flammable as to be dangerous when worn by individuals." A test method first published by the Department of Commerce was used to make this determination.

In 1967, Congress amended the FFA, expanding its coverage and authorizing the issuance of flammability standards through rulemaking. The flammability standards from the 1953 Act were to remain in effect until superseded or modified through procedures specified in the 1967 amendment.

In 1972, the Consumer Product Safety Act (CPSA) was enacted transferring the authority to issue and amend flammability standards under the FFA from the Secretary of Commerce to the CPSC. In 1975, CPSC republished the FFA of 1953, as amended in 1954, at 16 CFR Part 1609 and the Standard for the Flammability of Clothing Textiles at

16 CFR Part 1610. In 1994, several amendments were made to remove footnotes about equipment manufacturer identification and clarifications were added for test procedures, equipment, interpretation of results and the use of alternate test equipment and criteria.

CPSC issued an Advance Notice of Proposed Rulemaking (ANPR) in September 2002 to update the standard to better reflect current consumer practices and technologies and to clarify several aspects of the standard. CPSC staff has reviewed public comments on the ANPR and is developing draft amendments for Commission consideration.

### B. Children's Sleepwear

## i. Purpose

The Standards for the Flammability of Children's Sleepwear (16 CFR Part 1615 and 16 CFR Part 1616) were designed to protect children from burns by requiring that children's sleepwear be flame resistant (FR). With these standards, children's sleepwear must self-extinguish if a flame from a candle, match, lighter or a similar small flame item causes it to catch fire. The sleepwear standards are not intended to protect children from burns during larger-scale fires such as structure fires, outdoor fires, or from fires involving flammable liquids.

## ii. History

The children's sleepwear flammability standards were issued in the 1970's to address the unreasonable risk of injury or death to children from ignition and continued burning of sleepwear. The most common ignition scenarios involved children playing with matches and lighters. The most common garments ignited were traditional sleepwear nightgowns, pajamas, and robes. The children's sleepwear flammability standards originally required that all sleepwear, sizes 0 to 14, be flame resistant (FR) as defined by a flammability test (16 CFR Part 1615 pertains to children's sleepwear sizes 0 to 6x and 16 CFR Part 1616 pertains to children's sleepwear sizes 7 to 14). Some fabrics are inherently flame resistant; cotton and other cellulosic fabrics require treatment with chemical flame retardants to be FR. Both children's sleepwear flammability standards require that test specimens self-extinguish following exposure to a small open-flame ignition source.

In 1991, CPSC initiated a review of the sleepwear standards to clarify the definition and interpretation of children's sleepwear. During the 1980's, there was an increased marketing of non-FR cotton garments (e.g., long underwear, daywear) that resembled sleepwear, but manufacturers claimed these were not sleepwear. Additionally, there was an increase in consumer demand for untreated cotton or other natural fiber sleepwear. As a result, the CPSC began rulemaking in November 1992 to ensure safer sleepwear choices for consumers.

On January 13, 1993, CPSC issued a stay of enforcement (58 FR 4078) of sleepwear requirements against garments used as sleepwear which were labeled and marketed as underwear if those garments were skin-tight or nearly skin-tight and garments that were essentially identical in design, material, and fit to such "underwear" requirements.

In September 1996, CPSC published amendments (61 FR 47633) that exempted sleepwear garments from the flammability requirements if they are (1) size 9 months or

smaller, or (2) tight-fitting (touch the body at seven key points).<sup>1</sup> The exemptions became effective in January 1997, but manufacturers reported design, production and marketing problems with the tight-fitting garments. Clarifying amendments (64 FR 2833) were published in February 1999 that gave measurement clarifications to ensure the feasibility of producing functional tight-fitting sleepwear.

In 1999, CPSC issued a requirement for mandatory labeling of tight-fitting sleepwear (64 FR 34533). Labels must include informative safety information on hang tags or packaging and permanent identifying labels in each garment.

## II. National Burn Center Reporting System

## A. Purpose and Scope

In previous years, there have been inconsistencies in the reported numbers of clothingrelated burn injuries to children, and specifically differences in reported numbers of sleepwear-related burn injuries to children, among different organizations collecting such information. CPSC was receiving few sleepwear-related burn injury reports through its National Electronic Injury Surveillance System (NEISS). Other CPSC databases contained incident reports involving clothing, but these reports were received sporadically and were believed to be a fraction of all the clothing-related burn injuries to children under 15 years old in the nation.

In response to these differences in data and the potential underreporting through existing CPSC data collection programs, CPSC, with the support of the American Burn Association and Shriners Hospitals for Children, developed a reporting system to collect burn data.

The National Burn Center Reporting System (NBCRS) is a surveillance system designed to capture clothing-related burn injuries to children treated in burn centers in the United States. Specifically, the system collects comprehensive burn reports of incidents involving the ignition, melting or smoldering of clothing worn by children under age 15 from burn centers nationwide that treat children.

### B. Recruitment

Contact with the burn centers was initiated as early as March 2003 and many burn centers began submitting incidents at that time. The official kick-off date for the NBCRS was designated as July 1, 2003, with all of the 105 burn centers that treat children having received information about the system at that time. Each eligible burn center was sent a recruitment package with a letter requesting participation, a description of the NBCRS, patient confidentiality information, the definition of a reportable case, a copy of the reporting form, and criteria for obtaining garments. In addition, the package included CPSC's Children's Wearing Apparel Investigation Guideline so the burn center personnel would be aware of the type of information that would be requested of the patients if they agreed to participate in the system. The guideline includes background information on the flammability standards, the purpose of the investigation, directions to the CPSC field investigator specific to the incident, and the questionnaire that the investigator is to administer to the patient's guardian. Continued personal contact by

<sup>&</sup>lt;sup>1</sup> CPSC. "Final Amendments of Children's Sleepwear Standard." August 28, 1996.

CPSC staff was made with the directors of the burn centers in an effort to increase participation in the system. Additionally, the American Burn Association contacted their member burn centers to urge participation in the system. An incentive, paid by CPSC, of \$20 per reported incident and \$100 per incident to obtain the involved clothing was offered to the burn centers if needed to offset expenses.

Ninety-two of the 105 eligible burn centers have agreed to participate in the system. After one full year of implementation of the NBCRS, 44 burn centers have submitted incident reports involving clothing-related thermal burns to children under 15 years old. From January 2004 through June 2004, CPSC staff re-contacted those burn centers that had not submitted reports of incidents or that had initially submitted reports of incidents but had experienced an extended period of non-reporting. The burn centers responded that the reason for not submitting reports of incidents was because they had not seen any incidents fitting the definition of a reportable incident.

Eight burn centers have received incentives for reported incidents. The burn centers are using the incentive money towards resources for the children.

### C. Assignment of Incidents

Included in the information packet was a reporting form that the burn centers were to use for incident submission to CPSC. If the burn center is treating a child involved in an incident meeting the reporting criteria (a child under 15 years old treated for a thermal burn injury after the clothing the child was wearing ignited, melted, or smoldered), the incident is to be recorded on the reporting form and submitted via the instructions on the form. Upon receipt of the incident reports, the cases are entered into CPSC's Injury and Potential Injury Incident (IPII) file with a document number to identify each case. After review of the reported information, if the incident meets the criteria for a reportable case, the incident is assigned for an in-depth investigation by CPSC field investigators.

Once the incident is assigned for an in-depth investigation, the field investigator contacts the patient's guardian (through contact information provided on the reporting form) or the burn center contact person within 48 hours of receiving the assignment for investigation. The purpose of this immediate contact is to increase the likelihood that the investigator will speak to the guardian before the patient is released from the burn center, as well as to secure the garment involved in the incident. At this time, the investigation will be completed by gathering all possible information from the patient, guardian, and medical professionals. The investigator will conduct an on-site investigation if the clothing that was involved is available for sample collection by CPSC. The investigator will conduct a telephone investigation if the garment is not available for sample collection. If there is no contact made with the patient's guardian or if the guardian does not wish to participate in the investigation, the investigation is terminated. The only information available about the incident in a terminated case is that which is available on the incident report submitted by the burn center. Some of the reported incidents occurred in another country but the victim was treated at a U.S. burn center. Reports of this nature are assigned for telephone investigation only and no effort is made to collect the garment.

## METHODOLOGY

### I. Retrieval of Incident Reports

NBCRS incidents have a unique Type of Contact within the CPSC databases. In general, the Type of Contact denotes the original source of a reported incident in the IPII database (medical examiner, newspaper, attorney, etc.). All NBCRS cases have a Type of Contact 59 (Burn Center Reporting System). To retrieve the cases for this annual review, the Type of Contact field was used to differentiate between NBCRS cases and other clothing-related burn incidents to children under 15 years old.

This document includes analyses of all NBCRS incidents reported to the Commission from the implementation of the program in March 2003 through June 10, 2004. By closing the data on this date, all incident reports could be assigned for investigation, acknowledged by the field and the investigations could be completed by June 30, 2004.

## II. Classification of Incidents

The initial reporting form submitted by the burn centers gives some information about the victim, the injury and the scenario, limited as it may be. For the large majority of the incidents, investigations were completed and more detailed information was obtained about the incident, the victim, and the clothing involved. However, some cases were terminated for reasons given previously. Once the investigation was completed or terminated and the information reviewed, staff classified the incidents as out-of-scope, foreign country and in-scope. In total there were 268 incidents reported through the NBCRS during its first year of data collection.

## A. Out-of-Scope

There were 30 out-of-scope incidents reported through the NBCRS. A case was considered out-of-scope if it did not fit the definition of a reportable case, that is, a child under 15 years old who received thermal burns after the clothing he was wearing ignited, smoldered or melted. Therefore, cases were out-of-scope if they involved a child older than 14 years or if clothing was not involved in the incident. Burn centers were instructed to submit a case if there were any questions about it fitting the definition. Appendix A contains a table of all out-of-scope incidents along with descriptive details about each incident.

## B. Foreign Country

There were 29 incidents reported through the NBCRS that occurred in a foreign country, but the child was receiving treatment at a U.S. burn center. The majority of these incidents occurred in Mexico. The remaining incidents occurred in other South American and Central American countries and one incident occurred in the Marshall Islands. These incidents are collected through the NBCRS and investigated by telephone; however, they are not included in the analysis. Appendix B contains a table of all Foreign Country incidents along with descriptive details about each incident.

### C. In-Scope

There were 209 in-scope cases that occurred in the U.S. These incidents include all completed and terminated investigations that were both in-scope (involved children under 15 years old who received thermal burns after clothing ignited, melted or smoldered) and occurred in the U.S. Terminated investigations are used for analysis, as the incident report submitted by the burn center contains information about the victim, garment involved, and incident scenario. The details of the incident are not known, but since key information is available, it is appropriate to use the data. Appendix C contains all of the in-scope incidents used in the analysis.

### RESULTS

### I. Overall Results

After one full year of data collection, CPSC has received 209 in-scope reported incidents through the NBCRS. Four of these incidents involved two children and thus the number of victims injured or killed is 213. Additionally, one incident involved two garments – one worn for sleeping and the other not worn for sleeping. Because this report discusses information about the incidents, the victims and the classification of the garments with respect to whether the garment was worn for sleeping, some tables refer to the 209 incidents (Tables 1, 2, 3, 4, and 6), others refer to the 213 victims (Tables 5 and 6) and others refer to the 214 garments (Table 6) classified according to the use for sleeping.

Two of the 213 children died as a result of the burn injuries incurred during the incident. One 7-year-old girl died when she was playing with matches in her bedroom and caught the bedding on fire. The girl, who was wearing a t-shirt, sweatshirt and underpants (not worn for sleeping), received 83 percent total body surface area burns as a result of the incident. A 7-year-old boy died when he was imitating his father and put lighter fluid on an already-lit grill. The grill flared up catching the boy's clothing on fire. Information about the clothing is unknown. The boy received 90 percent total body surface area burns as a result of the incident.

Eleven-year-old children were most frequently involved in the incidents followed by 13year-old children. The youngest child was 2 months old and was being held by a relative when propane from a stove reached a candle flame and flashed towards the victim. Over three-quarters of the children injured were males. Table 1 shows the number of male and female children by year-age of the children. The most frequently treated children were 11-year-old boys.

|        | Age (Years) |   |   |    |    |    |   |    |    |   |    |    |    |    |    |       |
|--------|-------------|---|---|----|----|----|---|----|----|---|----|----|----|----|----|-------|
|        | <1          | 1 | 2 | 3  | 4  | 5  | 6 | 7  | 8  | 9 | 10 | 11 | 12 | 13 | 14 | Total |
| Male   | 3           | 0 | 4 | 10 | 13 | 7  | 7 | 14 | 9  | 9 | 14 | 25 | 10 | 23 | 15 | 163   |
| Female | 1           | 3 | 3 | 5  | 5  | 7  | 2 | 7  | 2  | 0 | 5  | 1  | 4  | 2  | 3  | 50    |
| Total  | 4           | 3 | 7 | 15 | 18 | 14 | 9 | 21 | 11 | 9 | 19 | 26 | 14 | 25 | 18 | 213   |

### Table 1. Age and Sex of Victims (In-Scope Incidents)

Source: National Burn Center Reporting System (2004).

Accelerants were frequently involved in the incidents. One hundred seven of the 209 incidents were reported to have involved accelerants that were spilled in or toward a fire or intentionally used in a fire. In an additional seven incidents, a flammable substance was unknowingly present in the fire (batteries, paint cans), was used as fuel for the fire (sterno, oil lamp/candle), or leaked into the area of the fire (propane leaks). A more detailed discussion of flammable liquids is in Section V of this document.

Table 2 shows the activities of the children preceding the incident and Table 3 shows the ignition source that caused the injuries. A review of both the activities of the children and the ignition source together shows that the most frequent cause of injury was children playing with lighters. Appendix D has a full table of activity and ignition source. Table 4

shows the five most frequently seen activity/ignition source combinations and how many of the incidents involved accelerants.

| Activity of Victim                          | Number of Incidents |
|---|---------------------|
| Playing with ignition source                | 57                  |
| Close to ignition source                    | 53                  |
| Starting or stoking fire                    | 26                  |
| Accidental contact with ignition source     | 24                  |
| Another person ignited victim's clothing    | 8                   |
| Ignition source fell on or struck victim    | 7                   |
| Trying to put out fire                      | 7                   |
| Fell on ignition source                     | 6                   |
| Spilled flammable liquid which started fire | 4                   |
| Using ignition source                       | 3                   |
| Other                                       | 8                   |
| Unknown                                     | 6                   |
| Total Number of Incidents                   | 209                 |

# Table 2. Activities of Victims Preceding Incidents (In-Scope Incidents)

Source: National Burn Center Reporting System (2004).

| Ignition Source                    | Number of Incidents |
|------------------------------------|---------------------|
| Outdoor fire                       | 62                  |
| Lighter                            | 37                  |
| Candle                             | 18                  |
| Structure fire                     | 13                  |
| Stove/range                        | 13                  |
| Matches                            | 10                  |
| Fireworks/firecrackers             | 8                   |
| Container fire                     | 4                   |
| Explosion                          | 4                   |
| Fireplace                          | 4                   |
| Heater                             | 3                   |
| Grill                              | 3                   |
| Hot water heater                   | 3                   |
| Lawn equipment                     | 3                   |
| Product set on fire (balls, towel) | 3                   |
| Cigarette                          | 2                   |
| Halogen lamp                       | 2                   |
| Other                              | 8                   |
| Unknown                            | 9                   |
| Total Number of Incidents          | 209                 |

## Table 3. Ignition Source Involved in Incidents (In-Scope Incidents)

Source: National Burn Center Reporting System (2004).

### Table 4. Five Most Frequently Reported Activity/Ignition Source Combinations and Accelerant Involvement during Incidents (In-Scope Incidents)

| Activity and Ignition Source        | Accelerant Involvement | Number of Incidents |
|-------------------------------------|------------------------|---------------------|
| Playing with lighter                | No accelerant          | 18                  |
|                                     | Accelerant             | 8                   |
| Close to an outdoor fire            | No accelerant          | 6                   |
|                                     | Accelerant             | 19                  |
| Starting or stoking an outdoor fire | No accelerant          | 0                   |
|                                     | Accelerant             | 16                  |
|                                     | No accelerant          | 10                  |
| Close to a structure fire           | Accelerant             | 2                   |
|                                     | Unknown                | 1                   |
| Accidental contact with a candle    | No accelerant          | 10                  |
|                                     | Accelerant             | 1                   |
|                                     | No accelerant          | 44                  |
| Total of Five Most                  | Accelerant             | 46                  |
| Frequent Activity/Ignition Source   | Unknown                | 1                   |
| Combinations                        | Total                  | 91                  |

Source: National Burn Center Reporting System (2004)

Appendix E shows a table of the ages of the children and the activity preceding the incident. Four and 5-year-old children playing with the ignition source were the most common age and activity combination (eight incidents for each age group) followed by 11-year-old children playing with the ignition source and starting/stoking the fire (seven incidents for each scenario).

In each of the incidents, at least one article of clothing was burned. The garments involved in the incidents ranged from burned socks (grouped with other) to costumes to sleepwear or a combination of multiple articles of clothing. Table 5 shows a list of garments involved and the frequency with which they were involved. Most of the reports involved the ignition of multiple garments. Note the table totals 213 because this is a count of the clothing worn by the victims and there were 213 victims in the 209 incidents.

| Type of Clothing                 | Number of Victims<br>Wearing Garment |
|----------------------------------|--------------------------------------|
| Combination of multiple garments | 66                                   |
| Shirt                            | 63                                   |
| Pants                            | 45                                   |
| Sleepwear                        | 10                                   |
| Outerwear                        | 6                                    |
| Dress                            | 4                                    |
| Costume                          | 2                                    |
| Skirt                            | 1                                    |
| Other                            | 9                                    |
| Unknown                          | 7                                    |
| Total Number of Garments         | 213                                  |

Table 5. Type of Clothing Worn by Victim that Ignited During Incidents(In-Scope Incidents)

Source: National Burn Center Reporting System (2004).

On both the reporting form and in the investigation, questions were asked as to whether the garment(s) involved in the incident was worn for sleeping. If the report stated that the garment was ever worn for sleeping, it is discussed along with garments intended for sleeping. Table 6 shows how many of the garments were worn for sleeping. Note the table totals 214 because one victim was burned while wearing a combination sweater and shirt. The report stated the shirt was worn for sleeping and the sweater was not worn for sleeping. Therefore the garments for this victim were split between categories. In all other incidents with a combination of multiple clothing, there was no distinction as to whether some of the garments were worn for sleeping while others were not.

| Garment Classification  | Number of Incidents   | Number of Victims  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Total   | <b>209</b><br>(Note: Column total is 210 as<br>one incident is double counted<br>because of the description of the<br>garments involved.) | 213<br>(Note: Column total is 214 as<br>one victim is double counted<br>because of the description of the<br>garments involved.) |  |  |  |  |  |  |  |  |  |  |  |
| Clothing Worn for Sleeping  | 36 *  | 36 *   |  |  |  |  |  |  |  |  |  |  |  |
| - daywear only  | 19 *  | 19 *   |  |  |  |  |  |  |  |  |  |  |  |
| <ul> <li>sleepwear (subject to FR<br/>requirements of the CFR)</li> </ul>     | 8   | 8  |  |  |  |  |  |  |  |  |  |  |  |
| <ul> <li>sleepwear (not subject to<br/>FR requirements of the CFR)</li> </ul> | 4   | 4  |  |  |  |  |  |  |  |  |  |  |  |
| - other garment only  | 1   | 1  |  |  |  |  |  |  |  |  |  |  |  |
| <ul> <li>combination of garments<br/>worn for sleeping</li> </ul>             | 3   | 3  |  |  |  |  |  |  |  |  |  |  |  |
| - unknown   | 1   | 1  |  |  |  |  |  |  |  |  |  |  |  |
| Clothing Not Worn for<br>Sleeping   | 146 * †   | 150 * †  |  |  |  |  |  |  |  |  |  |  |  |
| Unknown if Worn for<br>Sleeping   | 28  | 28   |  |  |  |  |  |  |  |  |  |  |  |

### Table 6. Classification of Clothing Worn by Victims that Ignited During Incidents (In-Scope Incidents)

Source: National Burn Center Reporting System (2004).

\* The incident/victim which is double counted is included in these counts. In the incident the one victim was wearing a t-shirt (daywear) sometimes worn for sleeping and a sweater (daywear) not worn for sleeping. † In four of the 146 incidents, two victims were injured during the incident. Therefore, 150 victims were injured in 146 incidents.

Each of the categories in Table 6 is discussed in detail below.

### II. Clothing Worn For Sleeping

There were 36 incidents reported through the NBCRS that involved clothing worn for sleeping. Each incident involved only one child, thus 36 victims. The children involved in the incidents ranged in age from 2 months old to 13 years old. Seven-year-old children (five males and three females) were most frequently involved in the incidents. Eleven of the 36 incidents included children involved in structure fires – this was the most frequently reported activity and ignition source combination. With many fewer incidents, children close to an outdoor fire and children playing with a lighter were the next most frequently reported scenarios at three reports each. Accelerants were involved in six of the 36 incidents.

## A. Daywear

Nineteen of the incidents involved daywear that was noted by the caregiver as used for sleeping. Five incidents involved two separate garments, thus a total of 24 garments were involved in the 19 incidents.

Seven-year-old males were most frequently involved in the incidents involving daywear used for sleeping. The five 7-year-old males were injured in the following ways: 1) involved in a house fire; 2) tossed a birthday candle when it got too hot; 3) accidentally contacted a stove/range; 4) had a candle fall on him while sleeping; and 5) playing with a

lighter. Table 7 shows a breakdown of the age and sex of the children involved in the daywear-used-for-sleeping incidents.

|        | Age (Years) |   |   |   |   |   |   |   |   |   |    |    |    |    |    |       |
|--------|-------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|-------|
|        | <1          | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Total |
| Male   | 0           | 0 | 0 | 1 | 1 | 0 | 1 | 5 | 2 | 0 | 1  | 0  | 2  | 1  | 0  | 14    |
| Female | 0           | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1  | 0  | 0  | 0  | 0  | 5     |
| Total  | 0           | 0 | 0 | 2 | 1 | 1 | 2 | 6 | 2 | 0 | 2  | 0  | 2  | 1  | 0  | 19    |

## Table 7. Age and Sex of Victims (Daywear-Used-for-Sleeping Incidents)

Source: National Burn Center Reporting System (2004).

Whereas 51 percent (107/209) of all the in-scope incidents involved accelerants, only six of these 19 daywear-used-for-sleeping incidents involved accelerants. The accelerants were involved in three outdoor fires; a container fire, starting a grill, and a structure fire.

The incidents involved daywear that was reported to have been worn for sleeping by the victim at some point in time, not necessarily at the time of the incident. In only two of the incidents, the victim was reported as sleeping at the time of the incident. It is possible that another incident involved children who were sleeping at the time of the large structure fires, however the information in the investigation does not specifically state the children's actions at the time of the incident. Shirts were the most common daywear-used-for-sleeping garments involved in the incidents. Table 8 shows the number of victims with each type of garment or combination of garments involved.

# Table 8. Types of Garments Worn by Victims during Incidents(Daywear-Used-for-Sleeping Incidents)

| Type of Clothing        | Number of Victims<br>Wearing Garments |
|-------------------------|---------------------------------------|
| Shirt                   | 11                                    |
| Shirt and Pants         | 5                                     |
| Pants                   | 2                                     |
| Dress                   | 1                                     |
| Total Number of Victims | 19                                    |

Source: National Burn Center Reporting System (2004).

Table 9 shows all scenarios (activity and ignition source combinations) for the 19 incidents with children wearing daywear worn for sleeping.

| Scenario  | Number of Incidents |
|---|---------------------|
| Close to structure fire                             | 3                   |
| Close to outdoor fire                               | 2                   |
| Playing with a lighter                              | 2                   |
| Starting/stoking outdoor fire                       | 2                   |
| Other activity with candle                          | 2                   |
| Accidental contact with candle                      | 1                   |
| Accidental contact with heater                      | 1                   |
| Accidental contact with stove/range                 | 1                   |
| Candle fell on victim                               | 1                   |
| Other person ignited victim's clothing with lighter | 1                   |
| Playing with container fire                         | 1                   |
| Starting/stocking grill                             | 1                   |
| Using stove/range                                   | 1                   |
| Total Number of Incidents                           | 19                  |

 
 Table 9. Activity/Ignition Source Combination during Incidents (Daywear-Used-for-Sleeping Incidents)

Source: National Burn Center Reporting System (2004).

# B. Sleepwear Subject to FR Requirements of 16 CFR Part 1615 and 16 CFR Part 1616

There are multiple categories of sleepwear that are subject to the FR requirements of the federal standards for children's sleepwear. The first category is traditional sleepwear and includes pajamas, nightgowns and bathrobes. Unless excluded by the 1996 amendments, these garments must be FR under the standard. Secondly, infant garments (sized 9 months or smaller) made before January 1997 should be FR as it was subject to the flammability portion of the standard (infant sized garments made after January 1997 are discussed later). Lastly, there is a category for homemade sleepwear made of particular fabrics subject to the standard. The children's sleepwear standards require that fabric intended or promoted, and sold, for use in children's sleepwear must comply with the flammability portion of the children's sleepwear standards. If the homemade sleepwear garment did not enter into commerce, the garment itself is not subject to the standard, but the *fabric* of the garment is subject to the standard (because the fabric has entered into commerce for use as sleepwear). If the homemade sleepwear garment did enter into commerce, the garment must comply with the FR requirements of the standards. Each of these three categories of children's sleepwear subject to the FR requirements of the standards at 16 CFR Part 1615 and 16 CFR Part 1616 is discussed individually below.

Eight incidents were reported through the NBCRS that involved sleepwear that appears to be subject to the federal standards. Ten garments burned in the eight incidents.

### i. Traditional Sleepwear that Must Be Flame Resistant

Traditional sleepwear includes pajamas, nightgowns and bathrobes. Such garments are subject to the children's sleepwear standards and thus must be FR. For many of the incident reports, specific information about the size and fit of the sleepwear garment was not available. In these incidents, staff classified the sleepwear garment as traditional sleepwear based on the description of the garment and the behavior of the garment

when subjected to the flame source. By including these incidents with vague garment description, the number of traditional sleepwear garments presented is a maximum number of traditional sleepwear garments involved in burn incidents.

All eight incidents involved what appears to be traditional sleepwear subject to the flammability standards and that sleepwear should be FR. The children ranged in age from 2 months to 12 years. An accelerant was involved in one incident by the direct actions of the victim. Three children were injured because they were close to the ignition source, two children accidentally contacted the ignition source, one child was playing with the ignition source, one child was stoking a fire, and one child tossed a blanket that contacted a halogen lamp. These incidents are discussed in detail below.

### Close to Fire

- A 2-month-old male was in the arms of a relative who was standing near a propane stove. The relative lit a candle and the propane caused a flash and fire that contacted the victim and the relative. A trailer fire resulted. The victim was wearing polyester one piece pajamas, sized 6-12 months. The garment was reported to smolder but did not ignite. The child was burned on the face but not on the parts of his body covered by the sleepwear. The size of the garment suggests that it be classified as traditional sleepwear. As the garment's size range includes sizes larger than 9 months, it is not exempt from the FR requirements of the sleepwear standard. CPSC staff collected the garment for analysis. Staff examined the garment and it appears to comply with 16 CFR Part 1615.
- A 4-year-old male was involved in a house fire caused by a propane gas wallmounted heater that overheated. The family was sleeping at the onset of the fire and was found at the door after trying to get out of the house. The child was stated to be wearing pajamas, but no further information about the pajamas was available. The pajamas had soot on them but were stated to not have ignited. The boy received 8 percent total body surface area burns. There was no sample for this incident, thus staff could not examine the garment for an indication of compliance to a standard. The description and behavior of the garment suggest that it be classified as traditional sleepwear.
- A 9-month-old male was lying on a blanket on the floor with his 3-year-old sibling. The sibling was playing with matches and dropped one on the blanket. The victim tried to get away from the resulting fire. The victim was wearing a sleeper of unknown material and size. The sleeper melted at the points of contact with the flame. The boy received second degree burns to his thigh, forearm and hand. He received a total of 5 percent total body surface area burns. There was no sample for this incident, thus staff could not examine the garment for an indication of compliance to a standard. The description and behavior of the garment suggest it be classified as traditional sleepwear.

Accidental Contact

• A 12-year-old male stumbled into a stove and his pajamas caught fire. The material and size of the pajamas are unknown. The investigation was terminated and little information is available. The extent of the boy's injuries is unknown. There was no sample for this incident, thus staff could not examine

the garment for an indication of compliance to a standard. The description of the garment suggests it be classified as traditional sleepwear.

• A 7-year-old female brushed against a space heater and the bathrobe and nightgown she was wearing melted and ignited. The material and size of the two garments are unknown. The child received second and third degree burns with 27.5 percent total body surface area burned. There was no sample for this incident, thus staff could not examine the garment for an indication of compliance to a standard. The description of the garments suggest they be classified as traditional sleepwear.

### Playing with Ignition Source

• A 12-year-old female was playing with a cigarette lighter and her nightgown ignited. The material and size of the garment are unknown. The victim received second and third degree burns to 15 percent of her body. There was no sample for this incident, thus staff could not examine the garment for an indication of compliance to a standard. The description of the garment suggests it be classified as traditional sleepwear.

### Stoking Fire

• A 12-year-old male and his sibling were standing near a wood stove with a fire that was smoldering. The victim poured gasoline on the smoldering fire and the fire flared up towards the victim. His pajama pants and the cuffs of the pajama top burned. The garments were reportedly made of a cotton/polyester blend, were size 14 and loose fitting. He received second and third degree burns to 15 percent of his body. There was no sample for this incident, thus staff could not examine the garment for an indication of compliance to a standard. The description of the garment suggests it be classified as traditional sleepwear.

### <u>Other</u>

• A 4-year-old female was sitting in a chair throwing her blanket and stuffed animal into the air. The blanket landed on top of the halogen lamp behind the chair and ignited. The blanket then fell on the victim sitting in the chair. The burning material scorched her hair and foot and a section of the nightgown she was wearing. The garment did not ignite further. The fire then spread to the house. The child received minor burn injuries. CPSC staff collected the garment for analysis. The description and behavior of the garment suggest it be classified as traditional sleepwear. Staff examined the garment and it appears to comply with 16 CFR 1615.

In addition to these eight incidents, there were two other incidents reported through the NBCRS that involved sleepwear, but have been categorized as out-of-scope because the clothing did not ignite, melt, or smolder. Although staff does not know the reason the sleepwear garments did not burn, it is possible that the garments did not burn because of the fiber content or treatment of the fabric. In one incident, two children ages 9 and 10, were watching television when friction caused a spark that ignited leaking propane causing a large explosion. The children were both wearing pajamas consisting of cotton shirts and flannel shorts. Both children received burns on the skin not covered by the garments, but the garments did not ignite. In the second incident, a 7-year-old child who

is paralyzed in her legs crawled next to a space heater. The heat caused burns to the child's legs, but the pajamas she was wearing did not ignite.

## ii. Infant Sleepwear Made Before the January 1997 Exclusion

There were no incidents reported through the NBCRS involving sleepwear garments size 9 months or smaller manufactured before January 1, 1997.

## iii. Homemade Sleepwear of Fabric Subject to Standards

There were no incidents reported through the NBCRS involving homemade sleepwear garments made from fabric intended to be used for children's sleepwear. Additionally there were no reported incidents involving homemade sleepwear that entered into commerce and thus subject to the flammability portion of the children's sleepwear standards.

# C. Sleepwear Not Subject to FR Requirements of 16 CFR Part 1615 and 16 CFR Part 1616

Whereas most sleepwear for children, such as pajamas and nightgowns, is subject to the children's sleepwear flammability standards, there are some categories of sleepwear for which the garments are not subject to the FR requirements of the standards. The first such category includes garments manufactured from January 13, 1993 through March 9, 1998 that fell under the stay of enforcement (58 FR 4078). An example of this type of garment is long underwear with dimensional restrictions (skin-tight). The second category includes infant sleepwear garments sized 9 months or smaller made after January 1997. These garments were exempted from the FR portion of the standard by the 1996 amendments. The third category of children's sleepwear garments not subject to the FR requirements is tight-fitting garments. Tight-fitting garments are those that meet the measurement requirements prescribed in the 1996 amendments. The fourth category includes homemade sleepwear manufactured from fabric not subject to the standard. If the fabric from which the sleepwear was made was not intended to be used for sleepwear, then the fabric does not have to comply with the children's sleepwear standards. The fifth category includes diapers and underwear. These garments have never been subject to the FR requirements of the children's sleepwear standards (i.e., diapers and underwear were not part of the 1996 amendments).

These categories of children's sleepwear not subject to the FR requirements of the children's sleepwear standards are discussed individually below. Additionally, staff has included discussion of other sleepwear not subject to the children's sleepwear standards because the garment was an adult size garment.

There were four incidents reported through the NBCRS involving children under 15 years old burned while wearing sleepwear not subject to the FR requirements of the children's sleepwear standards.

## i. Stay of Enforcement Garments

Garments subject to the stay of enforcement would be garments used as sleepwear but marketed as underwear with limited dimensional restrictions. There were no reports of children burned while wearing garments subject to the stay of enforcement.

## ii. Excluded Infant Size Garments

Garments excluded from the sleepwear standards are those infant size garments sized 9 months or smaller manufactured after January 1, 1997. There were no reports of incidents involving children burned while wearing garments sized 9 months or smaller.

## iii. Tight-Fitting Sleepwear Made After January 1997

There were no incidents reported through the NBCRS that appeared to have involved tight-fitting sleepwear garments manufactured after January 1, 1997.

## iv. Homemade Sleepwear from Fabric Not Subject to the Standards

One incident involved a 7-year-old girl who was burned in a homemade nightgown when she reached across an oil lamp/candle while praying. The armpit of the nightgown contacted the flame and the girl received burn injuries to her chest and arm. The cotton material from which the nightgown was made was purchased in India and brought to the U.S. by the child's grandmother.

### v. Diapers and Underwear

Two incidents were reported through the NBCRS that involved young children wearing diapers. In the incidents, a 23-month-old victim and a 3-year-old victim were burned in house fires while wearing only diapers. The 23-month-old victim was burned over 51 percent of her body. The 3-year-old victim was burned over 74 percent of her body in locations not covered by the diaper. Accelerants were not involved in either incident.

### vi. Adult Size Sleepwear

One incident involved a 13-year-old male who was standing close to a campfire burning inside of a tire rim. An ember came out of the fire and ignited the boy's pants. The pants were cotton flannel and were an adult size medium. There were no flammable liquids involved in this incident. The boy received third degree burns to his leg and fingers.

### D. Other Garments Worn for Sleeping

One incident was reported through the NBCRS in which the child was wearing another type of clothing other than daywear or sleepwear. The incident involved a child wearing an adult slip for sleeping. The 11-year-old female had an accident in her bed and changed clothing into the adult slip to return to bed for the night. During the night, a house fire occurred when a blanket contacted a space heater. The victim was burned over 25 percent of her body. Accelerants were not involved in this incident.

### E. Combination of Garments Worn for Sleeping

Three incidents were reported through the NBCRS in which the child was wearing a combination of types of garments.

In two incidents, the children were each wearing a shirt (daywear) and a diaper. In one of these incidents, a 12-year-old (autistic child) got confused during a house fire and did

not know how to exit the home. The other of the two incidents involved a 4-month-old child in a crib during a house fire.

There was one report in which a child was wearing cotton daywear and cotton underpants when she was burned. A candle burning in a bedroom was knocked over during the night, igniting the bedding. The fire was contained to the bedroom. The victim received burn injuries to 86 percent of her body.

### F. Unknown Garment Worn for Sleeping

One incident was reported through the NBCRS in which a 6-month-old child was involved in a house fire that began in her bedroom. The child was sleeping in a crib, thus the garment was used for sleeping. However, any further information about the garment is unknown. The victim suffered burns over 30 percent of her body. Accelerants were not involved in this incident.

### III. Clothing Not Worn for Sleeping

There were reports of 146 incidents of children burned while wearing clothing not worn for sleeping. Four of the incidents involved two children who were burned, thus a total of 150 children were burned wearing clothing not worn for sleepwear. Eleven-year-old males were most frequently involved in these incidents, followed by 13-year-old males. Table 10 is a breakdown of the ages and sexes of the children injured while wearing clothing not worn for sleeping.

|        | Age (Years) |   |   |    |    |    |   |    |   |   |    |    |    |    |    |       |
|--------|-------------|---|---|----|----|----|---|----|---|---|----|----|----|----|----|-------|
|        | <1          | 1 | 2 | 3  | 4  | 5  | 6 | 7  | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Total |
| Male   | 0           | 0 | 3 | 7  | 9  | 5  | 5 | 9  | 7 | 8 | 12 | 21 | 5  | 19 | 14 | 124   |
| Female | 0           | 0 | 1 | 4  | 4  | 6  | 1 | 1  | 2 | 0 | 3  | 0  | 1  | 0  | 3  | 26    |
| Total  | 0           | 0 | 4 | 11 | 13 | 11 | 6 | 10 | 9 | 8 | 15 | 21 | 6  | 19 | 17 | 150   |

## Table 10. Age and Sex of Victims(Clothing Not Worn for Sleeping)

Source: National Burn Center Reporting System (2004).

The type of clothing most frequently worn during the incidents was a shirt (49), followed by a combination of multiple garments of clothing (46). Table 11 shows the breakdown of the types of clothing worn by the 150 victims.

| Type of Garment                          | Victims Wearing<br>Type of Garment |
|--|------------------------------------|
| Shirt (includes all tops)                | 49                                 |
| Combination of clothing                  | 46                                 |
| Pants (includes all bottoms)             | 39                                 |
| Dress                                    | 3                                  |
| Outerwear                                | 3                                  |
| Costume                                  | 2                                  |
| Coveralls                                | 2                                  |
| Skirt                                    | 1                                  |
| Other                                    | 3                                  |
| Unknown                                  | 2                                  |
| Total Number of Victims Wearing Garments | 150                                |

### Table 11. Types of Garments Worn by Victims during Incidents (Clothing Not Worn for Sleeping)

Source: National Burn Center Reporting System (2004).

Of the 146 incidents, the most frequent activity and ignition source combinations were children playing with a lighter (22, 7 involving a flammable liquid), children standing too close to an outdoor fire (20, 17 involved a flammable liquid), and children starting or stoking an outdoor fire (13, all 13 involved a flammable liquid). All other activity and ignition source combinations had seven or fewer incidents. Appendix F is a full table with all activity and ignition source combinations. A total of 85 of the 146 incidents involved flammable liquids. More discussion of incidents involving flammable liquids is in Section V.

### IV. Unknown if Clothing was Worn for Sleeping

There were 28 incidents reported through the NBCRS in which it is unknown whether the garment damaged during the incident was ever worn for sleeping. Each incident involved one victim, thus 28 children were injured in these incidents. There was not one particular age group that contained the most incidents. The distribution of victims across these incidents was fairly uniform. Table 12 shows a breakdown of age and sex of the children involved in incidents in which the use of the garment for sleeping is unknown.

|        | (Unknown in Clothing Worn for Sleeping) |   |   |   |   |   |   |   |   |   |    |    |    |    |    |       |
|--------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|-------|
|        | Age (Years)                             |   |   |   |   |   |   |   |   |   |    |    |    |    |    |       |
|        | <1                                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Total |
| Male   | 0                                       | 0 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 1 | 1  | 4  | 0  | 2  | 1  | 17    |
| Female | 0                                       | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1  | 0  | 2  | 2  | 0  | 11    |
| Total  | 0                                       | 2 | 2 | 1 | 2 | 2 | 1 | 4 | 0 | 1 | 2  | 4  | 2  | 4  | 1  | 28    |

### Table 12. Age and Sex of Victims (Unknown if Clothing Worn for Sleeping)

Source: National Burn Center Reporting System (2004).

Most frequently, the garments were a combination of multiple items of clothing (11). Shirts were involved in five incidents, pants were involved in four incidents, and outerwear was involved in three incidents. One incident involved a sock and there was no information on the garments in the remaining four incidents. With so few incidents, it is difficult to suggest the most frequent activity and ignition source combination. Table 13 shows all activity and ignition source combinations for these 28 incidents.

| Activity and Ignition Source          | Number of Incidents |
|---------------------------------------|---------------------|
| Accidental contact with candle        | 3                   |
| Falling into outdoor fire             | 3                   |
| Close to an explosion                 | 2                   |
| Playing with matches                  | 2                   |
| Putting out an outdoor fire           | 2                   |
| Close to an outdoor fire              | 2                   |
| Accidental contact with stove/range   | 2                   |
| Starting or stoking an outdoor fire   | 1                   |
| Starting/stoking container fire       | 1                   |
| Close to matches                      | 1                   |
| Other person lit victim with lighter  | 1                   |
| Playing with lighter                  | 1                   |
| Starting/stoking grill                | 1                   |
| Starting/stoking a fire using a match | 1                   |
| Other person lit victim by arson      | 1                   |
| Playing with outdoor fire             | 1                   |
| Close to structure fire               | 1                   |
| Playing with unknown source           | 1                   |
| Unknown                               | 1                   |
| Total Number of Incidents             | 28                  |

 
 Table 13. Activity and Ignition Source Combination during Incidents (Unknown if Clothing Worn for Sleeping)

Source: National Burn Center Reporting System (2004).

The most common ignition source for these incidents, combining all activities associated with each ignition source, was an outdoor fire. Of the 9 incidents involving an outdoor fire, four involved a flammable liquid. In total, 15 of the 28 incidents involved a flammable liquid.

### V. Flammable Liquid Involvement

As previously stated, 107 of the 209 in-scope incidents reported through the NBCRS in its first year involved flammable liquids spilled or poured on or near an ignition source. In three incidents, two children were burned, thus 110 children were injured in the 107 incidents involving flammable liquids. The victims in these incidents ranged from 1 year old to 14 years old with the children most frequently involved being 11 years old. One hundred of the 110 injured children were males. Table 14 shows the age and sex of the victims injured in incidents involving flammable liquids.

|        |    | Age (Years) |   |   |   |   |   |   |   |   |    |    |    |    |    |       |
|--------|----|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|-------|
|        | <1 | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Total |
| Male   | 0  | 0           | 3 | 3 | 2 | 2 | 5 | 6 | 4 | 5 | 10 | 21 | 6  | 19 | 14 | 100   |
| Female | 0  | 1           | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 2  | 0  | 2  | 1  | 0  | 10    |
| Total  | 0  | 1           | 3 | 5 | 2 | 3 | 5 | 7 | 4 | 5 | 12 | 21 | 8  | 20 | 14 | 110   |

## Table 14. Age and Sex of Victims(Incidents Involving Flammable Liquids)

Source: National Burn Center Reporting System (2004).

Gasoline was the most frequently reported flammable liquid involved in the incidents. Lighter fluid was the second most frequently involved. Sixty-seven incidents involved only gasoline, an additional four incidents involved a gasoline and oil mixture, one incident involved gasoline and diesel fuel and one incident involved gasoline and lighter fluid. Thus a total of 73 of the 107 incidents involved gasoline. Table 15 shows the different flammable liquids and substances that were involved in the incidents. The flammable substances are broken down into fuel and automotive products and general household products.

| (Incidents Involving Fia     | Number of Incidents |
|------------------------------|---------------------|
| Fuel and Automotive Products | 88                  |
| Gasoline                     | 67                  |
| Lighter fluid                | 9                   |
| Oil and gasoline             | 4                   |
| Carburetor fluid             | 1                   |
| Chainsaw fuel                | 1                   |
| Diesel fuel and gasoline     | 1                   |
| Gunpowder                    | 1                   |
| Kerosene                     | 1                   |
| Lighter fluid and gasoline   | 1                   |
| Model airplane fuel          | 1                   |
| Torch fuel                   | 1                   |
| General Household Products   | 13                  |
| Spray paint                  | 3                   |
| Perfume                      | 2                   |
| Cleaning solvent             | 1                   |
| Cooking alcohol              | 1                   |
| Glue                         | 1                   |
| Hairspray                    | 1                   |
| Insect repellant             | 1                   |
| Lemon extract                | 1                   |
| Paint thinner                | 1                   |
| Rubbing alcohol              | 1                   |
| Unknown Substance            | 6                   |
| Total Number of Incidents    | 107                 |

 
 Table 15. Flammable Substance Involved in Incidents (Incidents Involving Flammable Liquids)

Source: National Burn Center Reporting System (2004).

Flammable liquids were most frequently involved in incidents with outdoor fires. Outdoor fires include campfires, bonfires, trash fires and brush fires among other uncontained outdoor fires. Table 16 gives the types of ignition source for the 107 incidents involving flammable liquids.

| Ignition Source           | Number of Incidents |
|---------------------------|---------------------|
| Outdoor fires             | 47                  |
| Lighter                   | 17                  |
| Matches                   | 5                   |
| Container fire            | 4                   |
| Fireplace                 | 4                   |
| Explosion                 | 3                   |
| Grill                     | 3                   |
| Hot water heater          | 3                   |
| Lawn equipment            | 3                   |
| Cigarette                 | 2                   |
| Product on fire           | 2                   |
| Structure fire            | 2                   |
| Candle                    | 1                   |
| Stove/Range               | 1                   |
| Other                     | 6                   |
| Unknown                   | 4                   |
| Total Number of Incidents | 107                 |

 
 Table 16. Ignition Source in Incidents Involving Flammable Substances (Incidents Involving Flammable Liquids)

Source: National Burn Center Reporting System (2004).

#### DISCUSSION

The NBCRS was developed as a tool to gather more comprehensive data on children's clothing-related burn injuries and especially to assess the prevalence of sleepwear-related burn injuries to children. During the first year of data collection, 44 hospitals submitted a total of 268 incidents, 209 of which involved incidents of children under 15 years old burned when the clothing they were wearing ignited, melted, or smoldered and occurred in the U.S. Eight of the 209 in-scope incidents involved sleepwear garments subject to the children's sleepwear flammability standards. There were no incidents reported through the NBCRS that appeared to have involved tight-fitting sleepwear or infant garments sized 9 months or smaller.

Outdoor fires were the most frequently reported ignition source (62 of 209). When looking at the five most frequently reported activity/ignition source combinations (summing to 91 incidents), outdoor fires constitute 41 of the 91 incidents. Outdoor fires were most frequently associated with flammable liquids, also.

A review of all incidents showed that accelerants involvement is a prevailing problem. Over half (107 of 209) of the in-scope incidents involved flammable liquids that were spilled in or near the ignition source or intentionally used with the ignition source. Gasoline was the most frequently reported flammable liquid involved in the incidents.

## Appendix A

This appendix contains out-of-scope incidents reported through the National Burn Center Reporting System from March 2003 through June 10, 2004. The incidents involve children 15 years old or older or incidents in which clothing did not ignite, melt, or smolder.

| Count | Document<br>Number         | Incident<br>Date | Age       | Sex  | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|-----------|------|--|------------------------------|----------------------|
|       | X0352186A                  |                  |           |      | The victim was involved in a burn incident, but the age of the victim at the time of the incident puts this out of   | Pants,                       |                      |
| 1     | 031023HCC2038              | 5/6/2003         | 15        | М    | scope.   | Shoes                        | Unknown              |
| 2     | B0420152A<br>040301HCC3193 | 5/25/2003        | 2         | F    | The patient fell into a campfire and received burns to hand and arms. The clothing did not catch on fire as stated by the burn center on the termination report.   | None                         | No                   |
| 3     | B03B0019A<br>031117HCC2097 | 6/25/2003        | 6<br>mos. | F    | The victim received scald burns when hot water was spilled on her shoulder. There was no clothing involved.  | None                         | N/A                  |
| 4     | B03B0013A<br>031209HCC2172 | 7/6/2003         | 10        | М    | The victim was playing near a fire pit. He fell into the fire<br>and received burns to his elbow and knee. The clothing<br>did not ignite and did not play a part in the injuries.   | None                         | N/A                  |
| 5     | X0452450A                  | 7/31/2003        | 14        | М    | The victim was making fireworks out of gun powder. He received 3% total body surface area flash burns to his face. No clothing was mentioned in the report.  | None                         | N/A                  |
|       | X0383932A                  | 0/4/0000         | 9         |      | The victim's parent plugged in a deep fryer in the kitchen<br>and the child was in his walker. The victim went into the<br>kitchen and pulled the appliance down and the hot oil<br>spilled onto him. He was wearing only a diaper. He |                              |                      |
| 6     | 030827HCC2633              | 8/1/2003         | mos.      | M    | received burns to his face, arms, chest and upper thighs.<br>The victim was making candles on the stove and the<br>mixture caught on fire, igniting shirt. The victim was too  | None                         | No                   |
| 7     | B0420155A<br>B03B0012A     | 8/8/2003         | 16        | F    | old to be included in analysis.<br>Two sisters were involved in a plane crash. Both children<br>were wearing cotton t-shirts and shorts. The clothing did  | Shirt                        | No                   |
| 8     | 031118HCC2103              | 8/25/2003        | 4, 3      | F, F | not burn. It was intact at the time of the crash.  | None                         | N/A                  |

| Count | Document<br>Number         | Incident<br>Date | Age        | Sex     | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|------------|---------|---|------------------------------|----------------------|
|       |                            |                  |            |         | The victim ignited a pile of trash with a lighter after it had been doused with gasoline and oil. She received 2nd  |                              |                      |
| 9     | X03A4906A<br>031023HCC2036 | 10/19/2003       | 9          | F       | degree burns to arms and legs, but no clothing caught fire.   | None                         | Unknown              |
| 40    | X03A4981A                  | 40/00/0000       |            | _       | The victim and her family were involved in an electrical<br>house fire. The clothing did not burn, ignite, melt, etc. The<br>burns were a result of the heat in the room that the girl  | Nees                         | No.                  |
| 10    | 031027HCC2042              | 10/23/2003       | 3          | F       | was in. It is believed that the garment protected her.<br>A friend poured gasoline onto a fire and it exploded onto   | None                         | Yes                  |
| 11    | B0420158A                  | 10/29/2003       | 15         | М       | the victim. The age of the victim makes this case out of scope.   | Pants                        | No                   |
| 12    | B03C0076A<br>031217HCC1248 | 11/10/2003       | 14         | M       | Victim was releasing butane fuel from a butane cylinder<br>and then ignited it by lighter which in turn ignited gas in a<br>coffee can. He tried to stomp out the flame and the<br>flames went around the boot on the inside of his pants.<br>The clothing did not ignite or melt. Only the sole of the<br>boots were affected. | Boots                        | No                   |
| 13    | B03C0063A                  | 11/21/2003       | 12<br>mos. | F       | Mother was going to bathe the child. She filled a container with hot water, turned around and the child fell into the container. The child received scald burns. No clothing was involved.  | None                         | N/A                  |
| 14    | B03B0031A<br>031128HCC1196 | 11/24/2003       | 9          | м       | The victim got an aerosol paint can from the garbage and<br>threw it on burning leaves. He then went to get the can<br>after realizing the danger and the can exploded, burning<br>his face from his nostrils to his chin. Clothing was not<br>involved.  | None                         | N/A                  |
| 15    | B03C0082A<br>031216HNE1164 | 12/14/2003       | 6,<br>10   | M,<br>F | Two children died (as did their mother) when a candle lit a futon/sofa and caught an attic apartment on fire. They died from smoke inhalation, with minor burns noted. No mention of clothing ignition.   | None                         | N/A                  |

| Count | Document<br>Number         | Incident<br>Date | Age  | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|------|-----|--|------------------------------|----------------------|
|       |                            |                  |      |     | The victim's mother and two brothers were lighting a   |                              |                      |
|       | DODODODO                   |                  |      |     | fire in the fireplace with gasoline and an explosion   |                              |                      |
| 16    | B03C0086A<br>031222HCC2201 | 12/18/2003       | 10   | F   | occurred. Child received burns to face, neck, arms. No clothing was involved.                                    | None                         | N/A                  |
| 10    | 00122211002201             | 12/10/2000       | 10   |     | During an outdoor fire the victim poured lighter fluid   | None                         |                      |
|       | B03C0089A                  |                  |      |     | onto the fire. An explosion occurred and the victim  |                              |                      |
| 17    | 031229HCC1294              | 12/24/2003       | 12   | М   | received flash burns to his face. Clothing not involved.   | None                         | Unknown              |
|       |                            |                  |      |     | The victim was burned by the heat from a space heater  |                              |                      |
| 40    | D0000000                   | 40/04/0000       | -    | _   | as she crawled by. She is paralyzed in her legs. She   | News                         | N a a                |
| 18    | B03C0090A                  | 12/24/2003       | 7    | F   | could not feel heat source. Clothing did not burn.<br>The victim died as a result of house fire allegedly set by | None                         | Yes                  |
|       |                            |                  |      |     | the mother. She was burned on 21% of body and died   |                              |                      |
|       | B03C0096A                  |                  |      |     | of anoxia. She was burned on the arms, legs, hands,  |                              |                      |
| 19    | 040105HCC2243              | 12/29/2003       | 7    | F   | face. Clothing did not burn.   | None                         | Yes                  |
|       |                            |                  |      |     | Children were lying on the bed when an explosion of  |                              |                      |
|       |                            |                  |      |     | fire came from the next room. The children were burned   |                              |                      |
|       |                            |                  |      |     | on places not covered by the pajamas they were   |                              |                      |
|       | B0410121A                  |                  | 9,   | F,  | wearing. The clothing did not melt or burn, and was only dirty because the kids went into a mud puddle.          |                              |                      |
| 20    | 040130HCC3167              | 12/30/2003       | 10   | M   | Clothing was in condition to be worn again.  | None                         | Yes                  |
| -     |                            |                  | _    |     | Patient touched unlocked electric transformer box  |                              |                      |
|       | B0410106A                  |                  |      |     | outside of mobile home. She received electrical shock.   |                              |                      |
| 21    | 040112HCC2252              | 1/1/2004         | 3    | F   | Electrical shocks are out of scope.  | None                         | Unknown              |
|       |                            |                  |      |     | Electrical wiring caused a house fire. The children  |                              |                      |
|       | X0410480A                  |                  |      | M,  | received burns to the face, arms, hands and back. The burns were from the heat. Clothing did not burn,           |                              |                      |
| 22    | 040130HCC2307              | 1/10/2004        | 5, 6 | F   | smolder or melt.   | None                         | Yes                  |
|       |                            |                  | 2, 2 | ·   | While burning trash, the boy put a paint can in the fire   |                              |                      |
|       |                            |                  |      |     | and the can exploded. The boy received flash flame   |                              |                      |
|       |                            |                  |      |     | burns, but the clothing did not burn. Burns to face and  |                              |                      |
| 23    | B0420126A                  | 2/1/2004         | 11   | М   | upper extremities.   | None                         | N/A                  |

| Count | Document<br>Number         | Incident<br>Date | Age  | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|------|-----|--|------------------------------|----------------------|
|       | B0420137A                  |                  | 18   |     | The victim pulled a crock pot full of hot water and roast  |                              |                      |
| 24    | 040212HCC2327              | 2/8/2004         | mos. | М   | beef and it fell on him. Scald burns are out of scope.   | None                         | No                   |
|       | B0430169A                  |                  |      |     | The victim put wood and cardboard in the fireplace,<br>squirted it with butane lighter fluid and tried to light it<br>with a multi-purpose lighter. Some of the fluid was on<br>his hand and his hand caught fire. Clothing did not  |                              |                      |
| 25    | 040310HCC3212              | 2/28/2004        | 11   | Μ   | burn.  | None                         | N/A                  |
|       | B0430162A                  |                  |      |     | The boy was stirring a trash fire and threw a paint can<br>into the fire. The can exploded and caught him on fire.<br>The can hit his face, hair, and arm. Clothing did not  |                              |                      |
| 26    | 040305HCC2362              | 2/29/2004        | 9    | М   | burn.  | None                         | N/A                  |
| 27    | B0440219A<br>040421HCC2478 | 3/6/2004         | 14   | м   | The victim was at a friend's for a campout. There was a campfire at the site, and someone had put a gas can too close to the fire. The victim kicked the gas can and his right leg caught fire (between jeans and leg). Clothing did not ignite.   | None                         | No                   |
| 28    | B0440189A<br>040401HCC1569 | 3/20/2004        | 13   | M   | With friends camping in the yard. A friend slung<br>kerosene leaving a trail of kerosene. The victim thought<br>the kerosene container was going to catch fire so he<br>picked up the can. It was already on fire so the victim<br>threw it and got self on fire. Clothing did not burn. | None                         | N/A                  |
|       | B0440201A                  |                  |      |     | Victim and friend took gunpowder from the house, put it<br>in bottle with a wick, lit the wick and threw the bottle.<br>The gunpowder did not ignite, the boy went over to the   |                              |                      |
| 29    | 040407HCC2442              | 3/22/2004        | 13   | Μ   | bottle and it exploded. Clothing did not ignite.   | None                         | No                   |
| 30    | B0460249A<br>040607HAA2541 | 5/19/2004        | 8    | М   | The victim grabbed an electrical wire. Current entered hand and exited stomach. Electrical burns are out of scope.   | None                         | No                   |

### Appendix B

This appendix contains foreign nation incidents that were reported through the National Burn Center Reporting System from March 2003 through June 10, 2004. All incidents that occurred outside of the United States or United States properties are included in this table.

| Count | Document<br>Number         | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn   | Worn for<br>Sleeping |
|-------|----------------------------|------------------|-----|-----|---|--------------------------------|----------------------|
| 1     | B0430173A<br>040312HCC2381 | 5/27/2003        | 2   | М   | Child was alone, lit a match and believed to have<br>dropped it on his stomach, igniting the book of<br>matches. The child's clothes were caught on fire.   | Undershirt,<br>Shorts          | Yes                  |
| 2     | B03C0078A<br>031219HCC2192 | 6/19/2003        | 12  | м   | Victim possibly poured some type of alcohol or<br>flammable liquid on toy cars then lit them on fire. His<br>clothes subsequently caught fire. 86% total body<br>surface area burns.  | P.E. clothes                   | No                   |
| 3     | X0394129A<br>030903HCC2647 | 7/3/2003         | 12  | м   | Victim and friend were flying a kite on the roof of the residence. The kite got stuck in electrical wiring and the victim tried to get it out using a metal curtain rod. The electrical surge lit the victim's clothing on fire. He received burns on 53% of his body, mostly on his chest.   | Shirt, Pants,<br>Poncho        | No                   |
| 4     | X0394134A<br>030903HCC2655 | 7/25/2003        | 7   | M   | The victim was standing with his mother who was<br>pouring gasoline on a barbeque pit. The gas leaked,<br>mom's hands started burning, she dropped the can,<br>gas spilled and the patio caught fire. The victim had to<br>go through the flames to escape, and his pants<br>melted. 1st and 3rd degree burns to stomach and legs,<br>respectively. | Pants, Shirt                   | No                   |
| 5     | X03A4980A<br>031027HCC2045 | 10/1/2003        | 9   | М   | The victim's father had gone to get gasoline, came<br>home and set up an outdoor fire for cooking. He<br>poured gasoline on embers and caused a flash fire.<br>Victim was caught in fire.   | Homemade<br>Shirt,<br>Overalls | Unknown              |

| Count | Document<br>Number                      | Incident<br>Date | Age        | Sex      | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|---|------------------|------------|----------|---|------------------------------|----------------------|
| 6     | X03A4907A<br>031023HCC2035              | 10/4/2003        | 9          | M        | The victim and his brother were making quesadillas in<br>the bathroom. The brother put alcohol in the pan and<br>lit the pan. The victim dropped the pan and was<br>burned over 30% of his body.  | Shirt,<br>Shorts             | Unknown              |
| 7     | B03B0005A<br>B03B0005B<br>031112HCC3042 | 10/8/2003        | 8,8        | F, F     | Two girls were playing with matches in an abandoned<br>building near a rusty can of machine fluid that leaked<br>onto the floor. One victim lit a match and an explosion<br>occurred. Both of the girls' homemade school uniforms<br>ignited. | Uniform<br>Uniform           | No                   |
| 8     | B0410111A<br>040116HCC2279              | 10/20/2003       | 15<br>mos. | .,.<br>М | The victim pulled a piece of wood from a stove and his clothing ignited. A house fire resulted.   | Shirt, Shorts                | No                   |
| 9     | B03C0033A<br>031202HCC3083              | 11/15/2003       | 8          | F        | There was an explosion in a factory of fireworks (at a neighbor's house). The victim was wearing a silk shirt.  | Shirt                        | Unknown              |
| 10    | B03C0071A<br>031215HCC2183              | 11/16/2003       | 11         | М        | The victim was playing with a sibling in a room when<br>the electricity went out. A sister lit a candle, a gasoline<br>container ignited and the victim and sister escaped via<br>a window.   | Dress                        | Unknown              |
| 11    | B03C0062A<br>031208HCC2168              | 11/21/2003       | 3          | M        | The long sleeve shirt was ignited by a fire burning in a street near his home. The victim and others were playing with rubbing alcohol which attributed to the incident when some spilled on victim's shirt.                                  | Shirt                        | No                   |
| 12    | B03C0064A<br>031208HCC2170              | 11/29/2003       | 10         | M        | The victim fell asleep with a candle burning on a nightstand next to his bed. The candle burned down and ignited the wooden nightstand which spread to the sheets and then to victim.   | Pants,<br>Sweatshirt         | Yes                  |
| 13    | B03C0084A<br>031222HCC2195              | 12/15/2003       | 5          | М        | A house fire was believed to have been the result of<br>Christmas tree lights that ignited. Three sisters died in<br>the incident (7, 4, 2 years old).  | Underwear                    | Yes                  |
| 14    | B03C0092A<br>031230HCC2221              | 12/23/2003       | 4          | М        | The victim was involved in a bus wreck which resulted in a fire.  | Shorts, Shirt                | No                   |

| Count | Document<br>Number | Incident<br>Date | Age  | Sex  | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|--------------------|------------------|------|------|---|------------------------------|----------------------|
|       |                    |                  |      |      | The victim's shorts caught fire from an explosion of  |                              |                      |
|       | B0420138A          |                  | _    |      | fireworks in the back of his father's pick up truck. The  | Pants, Shirt,                |                      |
| 15    | 040217HCC2333      | 12/31/2003       | 5    | М    | father died in the incident.  | Shoes                        | No                   |
|       | D04004004          |                  |      |      | The station of a first in the last first that an orbit first  | Sweatshirt,                  |                      |
| 10    | B0420128A          | 4/0/0004         |      | F    | The victim was playing in stack of hay that caught fire   | Sweatpants,                  | Nia                  |
| 16    | 040204HCC2319      | 1/2/2004         | 4    | F    | from a firecracker.   | Shirt                        | No                   |
|       | B0410115A          |                  |      |      | Another child was playing with an object that emitted sparks. The sparks ignited gun powder in the room       | Shirt, Shorts                | No                   |
| 17    | 040120HCC2281      | 1/2/2004         | 4, 6 | F, F | and an explosion resulted.  | Shirt, Shorts                | No                   |
| 17    |                    | 1/2/2004         | 4,0  | 1,1  | •   |                              | NO                   |
| 10    | B0410110A          | 4/5/0004         | _    |      | The victim and a cousin were lighting papers with   | Obint Oberte                 | L la la sura         |
| 18    | 040116HCC2278      | 1/5/2004         | 3    | М    | alcohol and ignited clothing.   | Shirt, Shorts                | Unknown              |
|       |                    |                  |      |      | The victim was playing on a rooftop terrace with a 3 foot piece of wire which contacted high voltage electric |                              |                      |
|       |                    |                  |      |      | wire overhead. Electricity entered the victim's body  |                              |                      |
|       | B0440206A          |                  |      |      | through both arms. Part or all of both arms were  |                              |                      |
| 19    | 040408HCC1596      | 1/20/2004        | 7    | М    | amputated.  | T-Shirt, Shorts              | No                   |
| 10    | B0420139A          | 172072001        | 12   |      | A diaper made from sweater-type material caught fire.   |                              |                      |
| 20    | 040217HCC2334      | 1/20/2004        | mos. | М    | Fire started when a candle fell on a mattress.  | Diaper, Shirt                | No                   |
|       |                    |                  |      |      | The victim was playing in yard, threw a cassette tape   |                              |                      |
|       | B0430161A          |                  |      |      | in the air, and contacted a high voltage power line.  |                              |                      |
| 21    | 040308HCC2365      | 2/5/2004         | 9    | М    | Sparks fell and ignited clothing.   | Jeans, Shirt                 | No                   |
|       |                    |                  |      |      | A lit candle fell near a coca-cola bottle of gasoline in  |                              |                      |
|       |                    |                  |      |      | the home. The bottle exploded and the house caught  |                              |                      |
|       |                    |                  |      |      | fire. The father died in the fire. The boy was wearing  |                              |                      |
|       | B0430167A          |                  |      |      | shorts and his body under the shorts was the only part  |                              |                      |
| 22    | 040310HCC3214      | 2/6/2004         | 10   | М    | not burned in the fire.   | Shorts                       | Yes                  |
|       | B0430168A          |                  |      |      |   |                              |                      |
| 23    | 040309HCC3207      | 2/13/2004        | 3    | М    | Clothing caught on fire with gasoline - <b>DEATH</b>  | Shirt, Pants                 | No                   |
|       |                    |                  |      |      | Victim's mother said a Molotov cocktail was thrown  |                              |                      |
| 04    | B0430160A          | 2/20/2004        | 7    |      | through the window and the child was ignited while  | Tabint Chint                 |                      |
| 24    | 040305HCC2363      | 2/20/2004        | 7    | М    | watching TV.  | T-shirt, Shirt               | No                   |

| Count | Document<br>Number         | Incident<br>Date | Age        | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|------------|-----|--|------------------------------|----------------------|
|       | 040510HCC3296              |                  | _          |     | An electrical cord caught on fire and the curtains   |                              |                      |
| 25    | B0450235A                  | 3/31/2004        | 5          | Μ   | caught fire, and a mirror and perfumes exploded.   | Shorts                       | No                   |
|       | 040507HCC2506              |                  |            |     | The victim smelled LP gas coming from the kitchen. A brother and neighbor were outside when a spark from the refrigerator ignited the gas and the victim caught  |                              |                      |
| 26    | B0440223A                  | 4/5/2004         | 13         | Μ   | fire. Underwear was reportedly burned away.  | Underwear                    | Yes                  |
| 27    | 040510HCC3295<br>B0450236A | 4/8/2004         | 6          | M   | The victim's uncle was playing with a gasoline can<br>when the can caught fire. The uncle went running to<br>the bathroom. While running, he ran by the victim's<br>bed and caught the bed on fire while the victim was<br>sleeping. | Shirt, Pants                 | Yes                  |
| 28    | B0460252A<br>040608HCC2569 | 5/4/2004         | 13<br>mos. | М   | The family's LP gas stove hose became loose and moistened the victim's shirt and then caught fire when he got close to the charcoal grill.   | Shirt                        | No                   |
|       | B0460253A                  |                  | 1100.      |     | The victim and sibling were in a bedroom. The sibling had rubbing alcohol and matches. The victim's clothing   |                              |                      |
| 29    | 040608HCC2568              | 5/16/2004        | 2          | F   | was moist with alcohol and somehow caught fire.  | T-shirt, Pants               | Yes                  |

### Appendix C

This appendix contains in-scope incidents reported through the National Burn Center Reporting System from March 2003 through June 10, 2004. The incidents involve children 14 years old and younger who were treated at burn centers for injuries received when their clothing ignited, melted, or smoldered.

| Count    | Document<br>Number | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|----------|--------------------|------------------|-----|-----|---|------------------------------|----------------------|
|          |                    |                  |     |     | The victim was wearing a robe and nightgown,  |                              |                      |
|          |                    |                  |     |     | brushed against a space heater and caught them  |                              |                      |
|          | 040512HCC2514      |                  |     |     | on fire. Parents stated that the robe was new and   | Nightgown,                   |                      |
| 1        | B0450225A          | 1/10/2003        | 7   | F   | was flame resistant; nightgown was purchased at a thrift store and was not FR.              | Robe                         | Yes                  |
| 1        | D04J022JA          | 1/10/2003        | 1   | 1   | The victim was playing with other children and  | Robe                         | 165                  |
|          | 040519HCC2526      |                  |     |     | was struck in the side by a bottle rocket. The shirt  |                              |                      |
| 2        | B0450244A          | 2/4/2003         | 3   | М   | ignited.  | Shirt                        | No                   |
| _        |                    |                  | -   |     | The victim and his brother were playing with  |                              |                      |
|          | B0420149A          |                  |     |     | matches. They lit a newspaper on fire and the   |                              |                      |
| 3        | 040301HCC3192      | 2/23/2003        | 9   | Μ   | victim's pants caught fire.   | Pants                        | No                   |
|          |                    |                  |     |     | The victim was in her home setting the table for  |                              |                      |
|          |                    |                  |     |     | dinner. She reached over a burning candle and   |                              |                      |
|          |                    |                  |     |     | the shirt caught fire. The mother sprayed the   |                              |                      |
|          | X0331682A          |                  | 10  | _   | victim with water from the kitchen sink. Pieces of  |                              |                      |
| 4        | 030707HCC1704      | 3/25/2003        | 10  | F   | plastic were melted to the victim's midriff.  | Gym Shirt                    | No                   |
|          |                    |                  |     |     | The victim and a friend were playing with matches   |                              |                      |
|          |                    |                  |     |     | and lighting fires near a barn. It got windy and the  |                              |                      |
|          | 040519HCC2528      |                  |     |     | boys decided to put the fire out. The victim got a  |                              |                      |
| 5        | B0450243A          | 4/18/2003        | 12  | М   | can he thought had water in it, but it had chainsaw fuel in it and he threw it on the fire. | Jeans                        | No                   |
| 5        | B0440193A          | +/10/2003        | 12  | 171 | The victim was standing on a chair over the stove   | 564115                       |                      |
| 6        | 040407HCC2448      | 4/18/2003        | 4   | М   | and his shirt caught fire.  | Shirt                        | Unknown              |
| <u> </u> | 0101011002440      | 1,10,2000        | -   | 101 | The victim was inside alone while his parents   | Crime                        | CHINIOWIT            |
|          | 040512HCC2513      |                  |     |     | were in the garden. He was playing with a lighter   |                              |                      |
| 7        | B0450234A          | 4/24/2003        | 5   | М   | and caught his shirt on fire.   | Shirt                        | No                   |

| Count     | Document<br>Number         | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-----------|----------------------------|------------------|-----|-----|---|------------------------------|----------------------|
|           | X0352188A                  |                  |     |     | A fire set by a peer was the cause of injury. All   |                              |                      |
| 8         | 030519HCC2454              | 4/24/2003        | 13  | М   | information unknown.  | Unknown                      | Unknown              |
| 9         | X0352118A<br>030513HAA1543 | 5/3/2003         | 11  | M   | The victim was attempting to light a pot-type BBQ<br>pit with gasoline. Some gasoline spilled on his<br>clothing and when he lit the pit, the clothing lit<br>also. He ran to his mother who put the flames out.<br>The shirt was completely burned and jeans<br>singed.                      | T-shirt,<br>Jeans            | No                   |
|           | B0420151A                  |                  |     |     | The victim was lighting a baseball on fire with<br>matches. It wasn't burning fast enough so he got<br>model plane fuel and poured it onto the baseball.<br>The fire flashed and the victim dropped a can and   |                              |                      |
| 10        | 040301HCC3198              | 5/5/2003         | 8   | Μ   | fuel spilled. It got onto his sock and ignited.   | Socks                        | No                   |
| 11        | X0352232A                  | 5/12/2002        | 11  | M   | The victim was watching a family friend (12 years<br>old) make a puddle of gasoline in the carport and<br>throw a lit match at the puddle. The victim tried to<br>stomp the fire out and lit his pant leg on fire. He   | Denim jeans,<br>Sneakers     | No                   |
| <u>11</u> | 030530HAA1583<br>X0352192A | 5/12/2003        |     |     | rolled on the ground to put the flames out.The victim's mother had left four candles burningin the kitchen and left the child unattended. Thevictim gained access to the candles somehow andthe dress caught fire. The child went to her motherand they took the dress off and got her in the | Sileakers                    |                      |
| 12        | 030521HCC2456              | 5/13/2003        | 4   | F   | shower to extinguish the flame.   | Dress                        | No                   |
| 13        | B0410104A<br>040108HCC1322 | 5/20/2003        | 12  | F   | The victim leaned over a candle that ignited the child's clothing.  | Unknown                      | Unknown              |
| 14        | B0440194A<br>040407HCC2447 | 5/26/2003        | 4   | F   | The victim fell into a pile of coals and the fire burned through shirt.   | Shirt                        | No                   |

| Count | Document<br>Number         | Incident<br>Date | Age      | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|----------|-----|--|------------------------------|----------------------|
|       | B0420130A                  |                  |          |     | The victim was sitting on the counter next to a stove and all four burners were on. He contacted         |                              |                      |
|       | 030604HNE7924              |                  |          |     | a burner and his clothing caught fire. It is believed  | Dress shirt,                 |                      |
|       | dup in other               |                  |          |     | that the fringed belt is the first thing that caught   | Pants,                       |                      |
| 15    | database                   | 6/2/2003         | 7        | М   | fire.  | Fringed Belt                 | No                   |
|       |                            |                  |          |     | The victim was helping his father repair a lawn  |                              |                      |
|       |                            |                  |          |     | mower. They had taken the engine apart and when they cranked the engine, something                       |                              |                      |
|       |                            |                  |          |     | sparked and sprayed gasoline on the victim which   |                              |                      |
|       | 040512HCC2511              |                  |          |     | ignited him. The bottom of the shorts ignited then   |                              |                      |
| 16    | B0450226A                  | 6/11/2003        | 13       | М   | smoldered.   | Shorts                       | No                   |
|       |                            |                  |          |     | The victim was at a friend's house setting leaves  |                              |                      |
|       |                            |                  |          |     | on fire. He had a candle in one hand and   |                              |                      |
|       | X0362652A                  |                  |          |     | container of gasoline in the other. He dropped the gasoline lighting his leg on fire. A small portion of |                              |                      |
| 17    | 030616HCC1629              | 6/11/2003        | 11       | М   | the edge of his shorts singed.   | Shorts                       | No                   |
| 17    | 00001011001020             | 0/11/2000        |          | 101 | The victim was playing with friends and got  |                              |                      |
|       | X0362791A03070             |                  |          |     | squirted with lighter fluid and then got lit on fire.  |                              |                      |
| 18    | 1HCC3327                   | 6/23/2003        | 10       | М   | The boys were re-enacting a movie/TV stunt.  | T-shirt                      | No                   |
|       | B0420153A                  |                  |          |     | The victim jumped over a firecracker and his   |                              |                      |
| 19    | 040301HCC3194              | 7/4/2003         | 4        | М   | shorts caught on fire.   | Shorts                       | No                   |
| 20    | B0420154A                  | 7/4/2002         |          | М   | The victim was playing with fireworks and one of   | Charte                       | No                   |
| 20    | 040301HCC3199<br>X0373151A | 7/4/2003         | 9        | IVI | them caught his shorts on fire.<br>A stray firecracker struck the victim's thigh where                   | Shorts<br>T-shirt,           | No                   |
| 21    | 030724HCC1753              | 7/5/2003         | 14       | F   | it became lodged and exploded.   | Shorts                       | No                   |
|       |                            |                  | <u> </u> |     | A bunch of boys were outside playing by a fire.  |                              |                      |
|       |                            |                  |          |     | One boy started throwing gasoline around from  |                              |                      |
|       |                            |                  |          |     | the can and some of it got on the victim's shorts. It  |                              |                      |
|       | B03B0020A                  |                  |          |     | is believed he was trying to light a firework and lit  |                              |                      |
| 22    | 031117HCC2100              | 7/5/2003         | 7        | Μ   | his shorts.  | Shirt, Shorts                | No                   |

| Count | Document<br>Number         | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|-----|-----|---|------------------------------|----------------------|
|       |                            |                  |     |     | The victim's brother took a neighbor's fireworks  |                              |                      |
|       |                            |                  |     |     | and a cigarette lighter in the yard with he and the   |                              |                      |
|       |                            |                  |     |     | victim. Their mother heard the victim screaming   |                              |                      |
|       |                            |                  |     |     | and saw his sleeve was on fire. The father patted   |                              |                      |
|       |                            |                  |     |     | the flames out and then they went to the hospital.  |                              |                      |
|       | X0373110A                  | _ /= /           |     |     | The brother later said they stuffed paper into a  |                              |                      |
| 23    | 030721HCC1725              | 7/7/2003         | 2   | М   | hibachi grill, lit it and the victim got too close.   | T-shirt                      | No                   |
|       |                            |                  |     |     | The victim was attempting to perform a magic trick  |                              |                      |
|       |                            |                  |     |     | using alcohol and a disposable lighter. The   |                              |                      |
|       | X00700444                  |                  |     |     | alcohol got on his hands and he cleaned them on   |                              |                      |
| 04    | X0373011A<br>030716HCC2566 | 7/7/2003         | 0   | М   | his shirt. When he lit the lighter, his shirt caught  | T-shirt                      | No                   |
| 24    | 030710HCC2500              | 1/1/2003         | 9   | IVI | fire and burned his shoulder, chest and chin.   | T-Shin                       | No                   |
|       |                            |                  |     |     | The victim's father poured gasoline into the carburetor of a lawn mower to try to start the |                              |                      |
|       |                            |                  |     |     | engine and attempted to start it. The victim was  |                              |                      |
|       | X0373210A                  |                  |     |     | standing next to the mower and the flash reached  | Tank top,                    |                      |
| 25    | 030724HCC1756              | 7/11/2003        | 3   | М   | him. It ignited the victim's t-shirt and shorts.  | Shorts                       | No                   |
| 20    | 03072411001730             | 7/11/2003        | 5   |     | The victim used a lighter and a can of hairspray to   | 010113                       |                      |
|       | 040512HCC2512              |                  |     |     | make a blow torch and ignited his clothing and  |                              |                      |
| 26    | B0450227A                  | 7/12/2003        | 11  | М   | bedding.  | Jeans                        | No                   |
|       | DOTOCLETT                  | 1712/2000        |     |     | The victim was imitating his father at the charcoal   | oouno                        |                      |
|       |                            |                  |     |     | grill. When the father was inside, the victim   |                              |                      |
|       |                            |                  |     |     | squirted lighter fluid on an already lit fire in the  |                              |                      |
|       | B0440203A                  |                  |     |     | grill, it exploded outward catching the victim on   |                              |                      |
| 27    | 040408HCC1588              | 7/13/2003        | 7   | М   | fire. DEATH   | Unknown                      | Unknown              |
|       |                            |                  |     |     | The victim and her brother soaked paper towels in   |                              |                      |
|       |                            |                  |     |     | gasoline and put them on a smoldering campfire.   |                              |                      |
|       | X0373152A                  |                  |     |     | A flash erupted and ignited the victim's shorts,  |                              |                      |
| 28    | 030723HCC1749              | 7/18/2003        | 10  | F   | melting the shorts.   | Shorts                       | No                   |
|       |                            |                  |     |     | The victim's pants caught on fire while trying to   |                              |                      |
|       | B0440196A                  |                  |     |     | put out a fire in a garbage can. While trying to put  |                              |                      |
| 29    | 040407HCC2444              | 7/18/2003        | 11  | Μ   | flames out, pants caught fire.  | Pants                        | Unknown              |

| 0     | Document                   | Incident   |     |     |   | Specific<br>Clothing | Worn for |
|-------|----------------------------|------------|-----|-----|---|----------------------|----------|
| Count | Number                     | Date       | Age | Sex | Summary   | Worn                 | Sleeping |
|       |                            |            |     |     | The victim and his sister started a small fire in the yard with paper and sticks. The victim tossed |                      |          |
|       |                            |            |     |     | gasoline onto the fire and flames reached back up   |                      |          |
|       | X0383443A                  |            |     |     | to victim and the gasoline bucket. The shorts   |                      |          |
| 30    | 030805HCC2604              | 7/24/2003  | 7   | М   | caught on fire. An  | Shorts               | No       |
| 00    | 00000011002001             | 112 112000 |     |     | A friend poured gasoline on a trash/brush fire. The   | Chorte               |          |
|       | X0383445A                  |            |     |     | victim was standing close to the fire when flames   |                      |          |
| 31    | 030806HCC1785              | 7/31/2003  | 14  | М   | flashed setting the victim on fire.   | T-shirt              | No       |
|       | 040512HCC2516              |            |     |     | The child was wearing a nightgown and playing   |                      |          |
| 32    | B0450228A                  | 8/1/2003   | 12  | F   | with a cigarette lighter. Her clothing caught fire.   | Nightgown            | Yes      |
|       |                            |            |     |     | The boy was spraying matchbox cars with insect  |                      |          |
|       | X03A4593A                  |            |     |     | spray and some got on his pants. He lit the lighter   |                      |          |
| 33    | 031010HCC1045              | 8/8/2003   | 10  | М   | and his pants also ignited.   | Pants                | No       |
|       |                            |            |     |     | The victim was with her grandmother, praying to a   |                      |          |
|       |                            |            |     |     | statue next to an oil lamp/candle. The victim   |                      |          |
|       |                            |            |     |     | reached over the lamp/candle and the armpit of  |                      |          |
|       |                            |            |     |     | her nightgown contacted the flame. She ran into   |                      |          |
|       | V00007404                  |            |     |     | the grandmother's room and the grandmother  | l la maluna a al a   |          |
| 34    | X0383719A<br>030812HCC3376 | 8/8/2003   | 7   | F   | removed the clothing from the victim. The cotton  | Handmade             | Yes      |
| 34    | 0306120003370              | 0/0/2003   | /   | Г   | material of nightgown was purchased in India.<br>The victim spilled gasoline on the concrete patio  | nightgown            | res      |
|       |                            |            |     |     | in front of his residence and wiped it up with a  |                      |          |
|       |                            |            |     |     | towel. He decided to burn the towel after he was  |                      |          |
|       |                            |            |     |     | finished, lighting the towel with a cigarette lighter.  |                      |          |
|       |                            |            |     |     | As he was watching the fire, the cuff of the victim's   |                      |          |
|       |                            |            |     |     | jeans ignited. He tried to get them off but they got  |                      |          |
|       | X0383841A                  |            |     |     | caught on his ankles. His brother poured water on   |                      |          |
| 35    | 030821HCC1825              | 8/15/2003  | 14  | М   | him.  | Jeans                | No       |
|       |                            |            |     |     | The victim and his brother were lighting gum  |                      |          |
|       |                            |            |     |     | wrappers on fire with a lighter. A gum wrapper  |                      |          |
|       | B0440195A                  |            |     |     | dropped or the lighter contacted the victim's shirt   |                      |          |
| 36    | 040407HCC2449              | 8/16/2003  | 6   | М   | and caught it on fire.  | T-Shirt              | No       |

| Count       | Document<br>Number         | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------------|----------------------------|------------------|-----|-----|---|------------------------------|----------------------|
|             |                            |                  |     |     | The victim, with developmental handicaps, was   |                              |                      |
|             |                            |                  |     |     | jumping up and down on the living room furniture while his grandparents were in another room. |                              |                      |
|             |                            |                  |     |     | They heard screaming and saw the boy's shirt on   |                              |                      |
|             | X0394291A                  |                  |     |     | fire. It is suspected that the contact was with a   |                              |                      |
| 37          | 030904HCC1880              | 8/17/2003        | 11  | М   | halogen lamp.   | Shirt                        | No                   |
|             |                            |                  |     |     | The victim and his brothers were squirting  |                              |                      |
|             |                            |                  |     |     | gasoline onto a campfire in their back yard. A spark jumped from the fire and landed in the   |                              |                      |
|             |                            |                  |     |     | gasoline can the victim was holding and his   |                              |                      |
|             | X0394451A                  |                  |     |     | clothing caught fire. While the clothing was worn   | T-Shirt,                     |                      |
| 38          | 031001HCC1009              | 8/18/2003        | 12  | М   | as sleepwear, it was not marketed as sleepwear.   | Shorts                       | Yes                  |
|             |                            |                  |     |     | The victim was cooking in the microwave above   |                              |                      |
|             |                            |                  |     |     | the stove. While cooking he was playing with the burners and reached up to the microwave      |                              |                      |
|             | 040519HCC2527              |                  |     |     | catching his sleeve on fire by the gas burner   |                              |                      |
| 39          | B0450245A                  | 8/19/2003        | 9   | М   | flame.  | Shirt                        | No                   |
|             |                            |                  |     |     | The victim and a friend poured torch fuel onto dry  |                              |                      |
|             | 504004504                  |                  |     |     | brush and lit it with a multi-purpose lighter. The  | TOLIC                        |                      |
| 40          | B0420156A<br>040301HCC3197 | 8/26/2003        | 10  | М   | fire spread quickly and the victim was trapped between the fire and a fence.                  | T-Shirt,<br>Shorts           | Unknown              |
| 40          | 0403010003197              | 0/20/2003        | 10  | IVI | The victim had cleaned a bicycle chain with   | 5110115                      | UTIKHUWH             |
|             |                            |                  |     |     | gasoline. He was swinging it around to dry it and it  |                              |                      |
|             |                            |                  |     |     | struck a car battery and his shirt subsequently   |                              |                      |
|             | X0394381A                  |                  |     |     | ignited. He rolled on the ground to extinguish the  |                              |                      |
| 41          | 030917HCC1933<br>B0440197A | 8/29/2003        | 13  | М   | fire.   | Shirt                        | No                   |
| 42          | 040407HCC2446              | 8/30/2003        | 13  | м   | The victim caught his pants on fire while playing with fireworks.                             | Pants                        | No                   |
| -7 <b>4</b> | 0-0-0-0711002-440          | 0/00/2000        |     | 111 | A bottle of perfume spilled and ignited while the   |                              |                      |
|             | X03B5137A                  |                  |     |     | victim was playing with a lighter. Her sock ignited   |                              |                      |
| 43          | 031106HCC1139              | 8/30/2003        | 12  | F   | and she burned her foot.  | Sock                         | Unknown              |

| <b>0</b> | Document                  | Incident  |     |     |  | Specific<br>Clothing | Worn for   |
|----------|---------------------------|-----------|-----|-----|--|----------------------|------------|
| Count    |                           | Date      | Age | Sex | Summary  | Worn                 | Sleeping   |
| 44       | B0440198<br>040407HCC2445 | 8/30/2003 | 13  | М   | The victim was sprayed by a flammable liquid by another child and his clothing ignited from a spark.         | T-shirt              | Unknown    |
| 44       | 04040711662445            | 0/30/2003 | 13  | IVI | The victim's sister poured perfume onto the  | 1-51111              | UTIKITOWIT |
|          |                           |           |     |     | victim's clothing and then ignited them with a   |                      |            |
|          | X0394421A                 |           |     |     | cigarette lighter. The mother jumped up, took the  |                      |            |
| 45       | 030924HCC1940             | 8/31/2003 | 7   | М   | shorts off of the victim and put him in the bath.  | Shorts               | No         |
|          |                           |           |     |     | The victim was in the garage reportedly feeding  |                      |            |
|          |                           |           |     |     | the dog (one report was that he was smoking  |                      |            |
|          |                           |           |     |     | marijuana). The dog is reported to have kicked a   |                      |            |
|          |                           |           |     |     | can of gasoline over, the gas ran under the hot  |                      |            |
|          |                           |           |     |     | water heater and ignited. The victim stepped in  |                      |            |
| 40       | X0394398A                 | 0/4/0000  |     |     | the gasoline, his leg caught fire and his shorts   | la an altraite       | NI-        |
| 46       | 030917HCC1931             | 9/4/2003  | 14  | М   | caught fire.   | Jean shorts          | No         |
|          | X0394383A                 |           |     |     | The victim was lighting papers on fire in the bed of<br>his father's pick-up truck. He couldn't put one out, |                      |            |
| 47       | 030915HCC1912             | 9/7/2003  | 5   | М   | hid it and caught his shirt on fire.   | Shirt                | No         |
|          | 0009101001912             | 3/1/2003  | 5   | 101 | The victim and two other children were in the yard   |                      |            |
|          |                           |           |     |     | making a bomb using a plastic juice bottle,  |                      |            |
|          |                           |           |     |     | styrofoam and gasoline. The other boy lit the  |                      |            |
|          |                           |           |     |     | styrofoam, then stepped on it and a flame shot out   |                      |            |
|          | X0394452A                 |           |     |     | hitting the victim's chest. His shirt and shorts   |                      |            |
| 48       | 031001HCC1010             | 9/15/2003 | 8   | М   | around the waist area caught fire.   | Shirt, Shorts        | No         |
|          |                           |           |     |     | The victim's mom filled the lawn mower with  |                      |            |
|          |                           |           |     |     | gasoline, put the can in the garage near the water   |                      |            |
|          |                           |           |     |     | heater and left it open. She went to mow grass   |                      |            |
|          |                           |           |     |     | and left the victim in the garage unsupervised. He   |                      |            |
|          | B03B0010A                 |           |     |     | knocked over the gas can and the heater<br>exploded. The boy went running out of the garage                  | loans                |            |
| 49       | 031113HCC1159             | 9/16/2003 | 3   | М   | on fire.   | Jeans,<br>T-shirt    | No         |

| Count | Document<br>Number         | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn    | Worn for<br>Sleeping |
|-------|----------------------------|------------------|-----|-----|---|---------------------------------|----------------------|
|       |                            |                  |     |     | The victim and his stepfather were burning trash,<br>as was a usual routine, and there were spray<br>paint cans in the trash bin. One of the paint cans<br>exploded and ignited the victim's pant leg. The<br>father again the shift ameldered but did not ignite |                                 |                      |
| 50    | X0394466A<br>030923HAA2684 | 9/16/2003        | 10  | M   | father said the shirt smoldered but did not ignite,<br>pants shell burned completely. The victim rarely<br>slept in the clothing, it was mostly used as<br>daywear.   | Shirt, Pants                    | Yes                  |
|       |                            |                  |     |     | The victim went into the garage and picked up a bottle with gasoline inside. He either poured it onto his toy lawn mower or dropped it. Since he  |                                 |                      |
| 51    | X03A4690A<br>031014HAA2015 | 9/24/2003        | 2   | М   | was near the gas water heater, it is believed that<br>the gasoline contacted the pilot light and a flash<br>fire resulted. The boy was engulfed in flames.  | Pants,<br>Shoes, Shirt,<br>Sock | No                   |
|       | X03A4691A                  |                  |     |     | The victim was sleeping on her mom's bed in a<br>mobile home. The smoke detector went off and an<br>uncle went and got the nephew out of the house,<br>then got the victim. The fire was deemed   | Blouse.                         |                      |
| 52    | 031014HCC2016              | 9/27/2003        | 3   | F   | suspicious and canines smelled accelerant.  | Skorts                          | Yes                  |
| 53    | X03A4713A<br>031017HCC1055 | 10/4/2003        | 10  | м   | One boy poured a solvent onto the victim's back<br>while he was playing on all fours and lit him with a<br>cigarette lighter. He rolled and put the flames out,<br>but stood up and the flames started again.   | Shirt,<br>Shorts                | No                   |
| 55    | X03A4714A                  | 10/4/2003        |     |     | The victim and a friend had a bon fire and torches<br>going on in the back yard. The friend poured<br>gasoline on the torches and the fire and some<br>splashed on victim's coveralls. The fire flared and  | 51015                           |                      |
| 54    | 031017HCC1054              | 10/4/2003        | 10  | М   | ignited the coveralls.  | Coveralls                       | No                   |
| 55    | B0440199A<br>040407HCC2450 | 10/6/2003        | 13  | м   | The victim and his friends were outside playing<br>with a gas-powered remote controlled car. The<br>victim was refueling the car and gasoline got on<br>his pants. It is unknown how the pants caught fire.   | Pants                           | No                   |

| Count | Document<br>Number         | Incident<br>Date | Age        | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|------------|-----|--|------------------------------|----------------------|
|       | B03B0021A                  |                  | <b>3</b> - |     | Gas from a weed trimmer spilled on his jeans and   |                              | j                    |
| 56    | 031119HCC2104              | 10/8/2003        | 13         | М   | burned his leg. Jeans smoldered.   | Jeans                        | No                   |
| 57    | X03A4715A<br>031017HCC1053 | 10/12/2003       | 13         | м   | The victim was making cookies and spilled lemon<br>extract onto his shirt. He reached over a burner<br>and the area of the shirt with the extract ignited.<br>The shirt burned and he received thermal burns.  | Shirt                        | No                   |
| 58    | B03B0008A<br>031114HCC2093 | 10/18/2003       | 13         | м   | The victim and a friend wanted to grill hotdogs.<br>The charcoals were lit and the victim took a gas<br>can and was holding it above his head when it<br>caught on fire. The gas can exploded in victim's<br>hands.  | T-shirt                      | Yes                  |
| 59    | B03B0022A<br>031119HCC2107 | 10/19/2003       | 7          | м   | The victim's friend lit his shirt with a lighter as he rode by on bicycle.   | Shirt                        | No                   |
| 60    | X03A4847A<br>031022HCC3017 | 10/19/2003       | 10         | M   | The family was burning a box of products and<br>something (probably batteries) in the box<br>exploded. The victim's hat caught fire. It is<br>believed that the fire went up his shirt, burned his<br>side, neck and cheek.  | Hat                          | No                   |
|       | B03B0032A                  |                  |            |     | Hot air balloons are housed in a trailer. A family<br>was filling balloons from propane tank and victim<br>was alone in the trailer. The family heard a sound<br>and the dad saw the trailer on fire. The victim said<br>he kicked something inside the trailer and caused<br>a spark that caused the ignition. Clothing was |                              |                      |
| 61    | 031201HCC2147              | 10/19/2003       | 11         | М   | burned off his body.   | Shirt, Shorts                | No                   |
| 62    | X03A4982A<br>031027HCC2043 | 10/20/2003       | 4          | M   | The victim was in his bedroom playing with a disposable lighter when he caught his shirt on fire. The clothing was worn as sleepwear, but was not marketed as sleepwear.   | Shirt                        | Yes                  |

|       | Document      | Incident   |      |     |  | Specific<br>Clothing | Worn for |
|-------|---------------|------------|------|-----|--|----------------------|----------|
| Count | Number        | Date       | Age  | Sex | Summary  | Worn                 | Sleeping |
|       |               |            |      |     | The victim was sitting on sofa next to the             |                      |          |
|       |               |            |      |     | fireplace. A visiting adult put a wet log on the fire  |                      |          |
|       |               |            |      |     | and put gasoline on the fire. A house fire started.    |                      |          |
|       | X03A4974A     |            |      |     | The victim was burned on his toes and chest. The       |                      |          |
| 63    | 031027HCC2041 | 10/21/2003 | 4    | М   | shirt did smell of gasoline.                           | Shirt                | No       |
|       |               |            |      |     | The victim was at a babysitter's house and fell into   |                      |          |
|       | X03A5021A     |            |      |     | a pile of burning trash. The fire may have involved    |                      |          |
| 64    | 031028HCC1091 | 10/22/2003 | 3    | М   | gasoline. He was burned on his chest and arms.         | Shirt                | No       |
|       |               |            |      |     | The victim was huffing gasoline fumes in living        |                      |          |
|       | X03A5020A     |            |      |     | room and spilled it on his clothing. Either he or a    | Undershirt,          |          |
| 65    | 031029HCC2048 | 10/23/2003 | 11   | М   | friend flicked a lighter and the clothing caught fire. | Shirt, Jeans         | No       |
|       |               |            |      |     | The victim and some boys were burning trash and        |                      |          |
|       |               |            |      |     | jumping over the trash pile. Either the victim         |                      |          |
|       |               |            |      |     | added gasoline and it arched back or another boy       |                      |          |
|       | B03B0024A     |            |      |     | added gasoline and it spilled on the victim. The       |                      |          |
| 66    | 031119HCC1171 | 10/23/2003 | 10   | М   | victim's left pant leg caught fire.                    | Pants                | No       |
|       |               |            |      |     | A firefighter had to get the victim out of the crib    |                      |          |
|       |               |            |      |     | during a house fire. The victim came in direct         |                      |          |
|       | B0420157A     |            | 6    | _   | contact with the flames/heat source during the         |                      |          |
| 67    | 040227HAA3190 | 10/24/2003 | mos. | F   | evacuation.  | Unknown              | Yes      |
|       |               |            |      |     | The victim was in a homemade Halloween                 |                      |          |
|       | X03A5025A     |            |      |     | costume at a backyard party. She contacted a           |                      |          |
| 68    | 031029HCC3019 | 10/25/2003 | 8    | F   | tea-light candle and the costume ignited.              | Costume              | No       |
|       |               |            |      |     | The victim was wearing a Minnie Mouse costume          |                      |          |
|       |               |            |      |     | at a Halloween party. Two boys were horse              |                      |          |
|       |               |            |      |     | playing and bumped into a table, knocking over a       |                      |          |
|       | I03B0134A     |            |      |     | sterno. The sterno fuel splashed and caught            | _                    |          |
| 69    | 031112HCC1151 | 10/25/2003 | 3    | F   | victim's costume on fire.                              | Costume              | No       |
|       |               |            |      |     | The victim was wearing a traditional Indian dress      |                      |          |
|       |               |            |      |     | and walked outside and contacted tea light             |                      |          |
|       | B03B0028A     |            |      |     | candles on ground. The front of the dress caught       |                      |          |
| 70    | 031125HCC3061 | 10/26/2003 | 2    | F   | fire. Garments were purchased in India.                | Dress                | No       |

| Count | Document<br>Number         | Incident<br>Date | Age      | Sex | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|----------|-----|---|------------------------------|----------------------|
|       |                            |                  |          |     | The victim was burning trash in a dirt pit in the backyard. He filled a half-full bottle of lighter fluid |                              |                      |
|       |                            |                  |          |     | with gasoline, then poured the combination fluid  |                              |                      |
|       |                            |                  |          |     | on the dirt pit and lit a fire. The fire lit vapors from  |                              |                      |
|       | X03B5136A                  | 10/00/0000       | 1.0      |     | the open can and exploded, fluid got on his shorts  |                              |                      |
| 71    | 031106HCC1138              | 10/29/2003       | 13       | М   | and the pants caught fire.<br>The victim was playing with a lighter and caught                            | Shorts                       | No                   |
|       | X03B5138A                  |                  |          |     | his shirt on fire. He started running around and his  |                              |                      |
| 72    | 031107HCC3037              | 10/31/2003       | 5        | М   | parents doused him with water.  | T-shirt                      | No                   |
|       |                            |                  |          |     | The victim's parents started a campfire with  |                              |                      |
|       | D00D00004                  |                  |          |     | gasoline and then left the camp area to go to the   | Pants,                       |                      |
| 73    | B03B0002A<br>031114HCC2092 | 11/4/2003        | 10       | F   | store. The victim poured gasoline on the fire and then she caught fire. She dropped and rolled.           | Undershirt,<br>Shoes         | Unknown              |
| 15    | 03111411002032             | 11/4/2003        | 10       | 1   | The victim's mom wasn't at home and the aunt  | 01063                        | OTIKITOWIT           |
|       |                            |                  |          |     | was holding the child. The grandmother lit a  |                              |                      |
|       |                            |                  |          |     | candle near a propane stove and a house/trailer   |                              |                      |
|       |                            |                  |          |     | fire resulted. The clothing was size 6-12 mos. and  |                              |                      |
|       | X03B5225A                  |                  |          |     | it smoldered but did not ignite. The child was<br>burned on the face, not on the body under the           | One piece                    |                      |
| 74    | 031107HCC3040              | 11/5/2003        | 202      | М   | sleepwear.  | pajamas                      | Yes                  |
|       |                            |                  |          |     | The victim rode an ATV and built a fire with  |                              |                      |
|       | <b>D00D0000</b>            |                  |          |     | gasoline on a log. The fire flashed and ignited the   |                              |                      |
| 75    | B03B0030A<br>031128HCC1199 | 11/6/2003        | 14       | М   | victim's coveralls where gas had spilled. He received burns below the knee level.                         | Coveralls                    | No                   |
| 15    | 03112011001199             | 11/0/2003        | 14       |     | A father was riding an ATV and went inside after  | Coverails                    |                      |
|       |                            |                  |          |     | getting off. While inside, the victim somehow got   |                              |                      |
|       |                            |                  |          |     | onto an ATV and when the dad came back out,   |                              |                      |
| 70    | B03B0007A                  | 44/0/0000        | <b>_</b> |     | the ATV was flipped, on fire, and the victim's  | T-shirt,                     |                      |
| 76    | 031113HCC3050              | 11/8/2003        | 7        | Μ   | clothing was on fire.   | Shorts                       | No                   |

| Count | Document<br>Number         | Incident<br>Date | Age        | Sex  | Summary   | Specific<br>Clothing<br>Worn          | Worn for<br>Sleeping |
|-------|----------------------------|------------------|------------|------|---|---------------------------------------|----------------------|
|       | B03B0003A                  |                  |            |      | One boy set a plastic gas can down within a few<br>feet of a small campfire in a backyard. The 11<br>year old picked it up to move and it exploded. The   | Jeans,<br>Undershirt, T-<br>shirt,    |                      |
| 77    | B03B0003B<br>031112HCC1150 | 11/8/2003        | 11,<br>9   | М, М | 11 year old's clothing and 9 year old's clothing ignited.   | Underwear<br>V2: Shorts               | No                   |
| 78    | B03B0011A<br>031118HCC2102 | 11/8/2003        | 2          | M    | The victim poured paint thinner from an open<br>container on him and went out to play. He played<br>near a BBQ pit and while his uncle was not<br>looking at him, he caught on fire.  | Shirt,<br>Sweater                     | Unknown              |
| 79    | B03C0034A<br>031202HCC1208 | 11/9/2003        | 7          | F    | The victim was playing with matches in the<br>bedroom. The bedding caught fire and she tried to<br>put it out and her clothing ignited. The clothing<br>burned completely off of her body and the victim<br>died. <b>Death</b> .        | T-shirt,<br>Underpants,<br>Sweatshirt | No                   |
| 80    | B03B0009A<br>031114HCC2094 | 11/9/2003        | 13         | M    | The victim and his family were sitting around a campfire in the yard. The victim's parents went inside leaving the victim outside unsupervised. A younger brother was in the house and saw the victim on fire.                          | Jacket                                | No                   |
| 81    | B0410101A<br>040106HCC3136 | 11/10/2003       | 20<br>mos. | F    | The victim was playing with glue that the<br>grandmother was using to make magnets. There<br>were candles lit nearby. The victim got glue on her<br>pants, was dancing around and got too close to a<br>candle. Glue and pants ignited. | Sweatpants                            | Unknown              |
| 82    | B03B0016A<br>031117HCC1166 | 11/13/2003       | 5          | F    | The victim had a birth defect but it is not believed<br>to have affected the situation. She had picked up<br>a cigarette lighter and played with it and ignited<br>the lower left front of vest which then moved to the<br>shirt.       | Shirt,<br>Vest                        | No                   |

| Count | Document<br>Number         | Incident<br>Date | Age | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|-----|-----|--|------------------------------|----------------------|
|       |                            |                  |     |     | The victim and his 12 year old brother were  |                              |                      |
|       |                            |                  |     |     | playing in a make-shift camp in the yard. The brother put twigs in a gas can with gasoline and           |                              |                      |
|       |                            |                  |     |     | somehow a fire started, but the can did not  |                              |                      |
|       | B03B0017A                  |                  |     |     | explode. The victim received burns on face and   |                              |                      |
| 83    | 031117HCC1165              | 11/13/2003       | 4   | М   | left hand; pants singed, did not ignite.   | Wind pants                   | No                   |
|       |                            |                  |     |     | The victim and a friend were playing in a back   |                              |                      |
|       |                            |                  |     |     | room near a lit candle. The friend ran out to adults saying that the victim's dress was on fire. The     |                              |                      |
|       | B03B0023A                  |                  |     |     | bowtie on the back of the dress was the original   |                              |                      |
| 84    | 031119HCC2106              | 11/14/2003       | 5   | F   | piece to ignite.   | Dress                        | No                   |
|       |                            |                  |     |     | The victim's friend had filled a cup with gas to   |                              |                      |
|       |                            |                  |     |     | pour on the campfire. The friend tossed the gas at   |                              |                      |
|       | B03C0065A                  |                  |     |     | the flames but missed and the gas landed on  |                              |                      |
| 85    | 031208HCC1229              | 11/15/2003       | 11  | М   | victim. The gas lit as it crossed the fire and victim was involved.                                      | Jeans                        | No                   |
| 00    | 00120011001220             | 11/10/2000       |     | 101 | The victim was playing with friends. A friend found  | ocario                       |                      |
|       |                            |                  |     |     | lighter fluid, put some in a small container and lit   |                              |                      |
|       |                            |                  |     |     | it. The container spilled, fluid contacted victim's  |                              |                      |
|       | DOODOOGA                   |                  |     |     | knee and it caught fire. The victim dropped and  |                              |                      |
| 86    | B03B0025A<br>031119HCC3054 | 11/17/2003       | 11  | М   | rolled but went into a puddle of burning lighter fluid.  | Shirt                        | No                   |
| 00    | 03111311003034             | 11/17/2003       |     | IVI | The victim's sibling lit a birthday candle and threw   | Shint                        |                      |
|       |                            |                  |     |     | it when it got too hot. The sibling threw it onto  |                              |                      |
|       | B03C0035A                  |                  |     |     | bedding. The victim got hurt sometime during the   |                              |                      |
| 87    | 031202HCC1210              | 11/17/2003       | 7   | М   | large fire that resulted.  | Undershirt                   | Yes                  |
| 88    | B03B0026A<br>031124HCC2133 | 11/18/2003       | 5   | М   | The victim received burns on his stomach and   | Shirt                        | Unknown              |
| 00    | 0311240002133              | 11/10/2003       | 5   | IVI | side when his shirt ignited from a glass jar candle.<br>The victim opened the oven door, climbed up onto | Sillit                       | UNKNOWN              |
|       | B03B0027A                  |                  |     |     | range and accidentally turned on the burner. The   |                              |                      |
| 89    | 031121HCC1182              | 11/19/2003       | 5   | М   | flames ignited the sleeve of his long sleeve shirt.  | Shirt                        | No                   |

|       | 303C0066A<br>31209HCC1231 | 11/19/2003 |    |     | Either the lighter, a cigarette, or the child started a fire in a mobile home. The child was burned on |                              |            |
|-------|---------------------------|------------|----|-----|--|------------------------------|------------|
|       |                           | 11/19/2003 |    |     | I fire in a mahila hama. Tha shild was hurned an   |                              |            |
|       |                           | 11/19/2003 |    |     |  |                              |            |
|       |                           | 11/19/2003 |    |     | areas of the body except for the area covered by   |                              |            |
| 00 00 | 0120011001201             |            | 3  | М   | the diaper. Two adults died in the fire (one after saving victim).                                     | Diaper                       | Yes        |
|       |                           | 11,10,2000 | Ŭ  | 101 | The victim was inside a hay loft and his sister  | Diapei                       | 105        |
|       |                           |            |    |     | accidentally lit the loft on fire. The victim was  |                              |            |
|       |                           |            |    |     | stuck in the loft. He was burned on all parts of his   |                              |            |
| В     | 303B0029A                 |            |    |     | body except where the family dog was sitting in  | T-shirt, Long                |            |
| 91 03 | 31125HCC1191              | 11/20/2003 | 4  | М   | the victim's lap.  | pants                        | No         |
|       |                           |            |    |     | The victim was outside of her home, it was cold  |                              |            |
|       |                           |            |    |     | and they started a fire in a metal trash can. The  |                              |            |
|       |                           |            |    |     | girl was standing with her back to the fire. Her   |                              |            |
|       | 803C0050A<br>31203HCC3089 | 11/26/2003 | 7  | F   | sweater ignited and most of the back was destroyed.  | Sweater,<br>Sweatpants       | Unknown    |
| 92 0. | 512030000000              | 11/20/2003 | 1  | Г   | The family was burning a campfire. The victim  | Sweatpants                   | UTIKITOWIT |
| B     | 803C0072A                 |            |    |     | poured kerosene onto the fire to enlarge flames  |                              |            |
|       | 31215HCC1242              | 11/28/2003 | 11 | м   | and received burns to arm, arm pit and face.   | Shirt                        | No         |
|       |                           | 11/20/2000 |    |     | The victim poured gasoline mixed with oil onto a   | - Chine                      |            |
|       |                           |            |    |     | wood fire, causing it to flare up. He dropped the  |                              |            |
| В     | 803C0039A                 |            |    |     | container and fuel spilled onto ground and his   |                              |            |
| 94 03 | 31204HCC2156              | 11/28/2003 | 12 | М   | clothing and pants ignited.  | Jacket, Jeans                | No         |
|       |                           |            |    |     | The victim was angry with her mother and   |                              |            |
| -     | 40512HCC2510              |            | _  |     | purposely held her t-shirt over a candle flame to  |                              |            |
| 95 B  | 30450229A                 | 11/28/2003 | 7  | F   | light it on fire.  | T-shirt                      | Yes        |
|       |                           |            |    |     | Some boys started several small fires using  |                              |            |
|       | 0000000                   |            |    |     | sticks, matches, and gasoline. The victim  | logging suit                 |            |
|       | 803C0036A<br>31202HCC1209 | 11/30/2003 | 14 | м   | attempted to put out a fire and a friend squirted gas on and around victim and fire which flared up.   | Jogging suit,<br>Winter coat | No         |

| Count | Document<br>Number         | Incident<br>Date | Age  | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|------|-----|--|------------------------------|----------------------|
|       |                            |                  |      |     | The victim's mother and victim were putting pieces   |                              |                      |
|       |                            |                  |      |     | of paper on a fire in a bucket that was started with gasoline (originally burning fire ants in bucket).      |                              |                      |
|       |                            |                  |      |     | The wind blew sparks which lit his shirt. T-shirt  |                              |                      |
|       | B03C0037A                  |                  |      |     | burned up, but have similar one in different color   |                              |                      |
| 97    | 031203HCC1219              | 11/30/2003       | 6    | М   | as sample.   | T-Shirt                      | Yes                  |
|       |                            |                  |      |     | A house burned down. The victim woke up and the whole house was on fire. The diaper melted.                  |                              |                      |
|       | B0410097A                  |                  | 23   |     | The father saved the victim and the sibling died in  |                              |                      |
| 98    | 040106HCC2250              | 12/1/2003        | mos. | F   | the fire.  | Diaper                       | Yes                  |
|       |                            |                  |      |     |  |                              |                      |
|       | DOCOODA                    |                  |      |     | The victim was walking backwards on the gravel   | Coat, Jeans,                 |                      |
| 99    | B03C0083A<br>031222HCC2196 | 12/2/2003        | 4    | F   | road in front of her home, tripped, fell into fire that grandma had started.                                 | Underwear,<br>Shirt          | No                   |
| 33    | 03122211002130             | 12/2/2003        | -    | 1   | The victim started a small campfire to keep warm   | Shint                        |                      |
|       |                            |                  |      |     | and it began to smoke and smolder out. The   |                              |                      |
|       | B03C0068A                  |                  |      |     | victim approached and poured gasoline on it, it  | Sweatpants,                  |                      |
| 100   | 031222HCC1273              | 12/2/2003        | 14   | М   | flashed upward.  | Sweatshirt                   | No                   |
|       |                            |                  |      |     | The victim was sitting with her aunt when the  |                              |                      |
|       | B03C0087A                  |                  |      |     | victim got up and ran towards a cinder block fire<br>pit, tripped and fell hands first into burn pit full of |                              |                      |
| 101   | 031229HCC2217              | 12/4/2003        | 2    | F   | hot embers. Jacket melted onto victim's arms.  | Jacket                       | Unknown              |
|       | B03C0069A                  |                  | 4    |     | The victim was in a crib and there was a house   |                              |                      |
| 102   | 031210HCC1233              | 12/4/2003        | mos. | М   | fire. He was wearing a shirt and diaper.   | Shirt, Diaper                | Yes                  |
| 100   | B03C0067A                  | 10/7/0000        |      | N.4 | The victim obtained a lighter, was hiding it from  | Tabirt                       | No                   |
| 103   | 031209HCC1232              | 12/7/2003        | 4    | М   | grandmother and it lit against his shirt and chest.<br>While standing near a smothered bonfire, the          | T-shirt                      | No                   |
|       |                            |                  |      |     | victim fell with her hand landing in the fire. The   |                              |                      |
|       |                            |                  |      |     | jacket the child was wearing melted on the   |                              |                      |
|       | B03C0073A                  |                  | 12   |     | mother's fingers, but not on the victim. The victim  |                              |                      |
| 104   | 031217HCC2186              | 12/7/2003        | mos. | F   | was burned on her fingers and wrist.   | Jacket                       | Unknown              |

| Count | Document<br>Number         | Incident<br>Date | Age            | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|----------------|-----|--|------------------------------|----------------------|
|       |                            |                  | - <b>- 3</b> - |     | There were gas jugs on the laps of people in a   |                              | jj                   |
|       | B03C0070A                  |                  |                |     | car. Some struck a lighter and the gas jugs  | Sweatshirt,                  |                      |
| 105   | 031212HCC2180              | 12/9/2003        | 5              | М   | exploded and the driver went into a ditch.   | Jeans                        | Unknown              |
|       |                            |                  |                |     | The victim and two adults were standing in   |                              |                      |
|       | D00000744                  |                  |                |     | doorway lighting fireworks. A spark went into his  |                              |                      |
| 100   | B03C0074A                  | 10/11/0000       | 0              | 5.4 | pocket and lit jumping jacks. The heat burned the  | laana                        | No                   |
| 106   | 031216HCC1245              | 12/11/2003       | 8              | М   | victim's legs through the inside of his pocket.<br>A sibling spraying paint from a can was sprayed | Jeans                        | No                   |
|       |                            |                  |                |     | toward burning trash. This caused a line of fire   |                              |                      |
|       | B03C0077A                  |                  |                |     | that injured victim. Mother believes jacket  |                              |                      |
| 107   | 031219HCC2190              | 12/11/2003       | 6              | М   | protected from further injury.   | Jacket                       | No                   |
|       |                            |                  |                |     | The victim's father threw gasoline on a burning fire   |                              |                      |
|       |                            |                  |                |     | in a fireplace. The father caught his hands on fire  |                              |                      |
|       |                            |                  |                |     | and ran outside to extinguish. When he went  |                              |                      |
|       |                            |                  |                |     | outside, a back flash occurred. The carpet caught  |                              |                      |
|       | B03C0075A                  |                  |                |     | fire and the victim tried to extinguish it and shirt   |                              |                      |
| 108   | 031216HCC1244              | 12/13/2003       | 10             | М   | caught fire.   | Shirt                        | No                   |
|       | B0410105A                  | 40/45/0000       | 1.0            | _   | The victim was leaning on space heater to get  |                              |                      |
| 109   | 040108HCC1321              | 12/15/2003       | 10             | F   | warm. Her skirt caught fire.   | Skirt                        | No                   |
|       | D02C0001A                  |                  |                |     | A house fire occurred. Four other children were  |                              |                      |
| 110   | B03C0091A<br>031230HCC2220 | 12/19/2003       | 7              | м   | injured in incident, but were not treated at the burn center.                                      | Pants                        | Yes                  |
| 110   | 0312300002220              | 12/19/2003       | 1              | IVI | The victim and a cousin built a fire in a fire pit to  | Fallis                       | 165                  |
|       |                            |                  |                |     | cook hot dogs. They got lighter fluid and put  |                              |                      |
|       |                            |                  |                |     | lighter fluid on the fire, some got on the victim's  |                              |                      |
|       | B0410099A                  |                  |                |     | leg. He kicked a log to get it back in the fire and  | Jeans,                       |                      |
| 111   | 040105HCC1313              | 12/21/2003       | 13             | М   | the shoe, sock, pants caught fire.   | Socks, Shoe                  | No                   |
|       |                            |                  |                |     | The victim's father and uncle were burning leaves  |                              |                      |
|       |                            |                  |                |     | and a tree stump. The victim saw a can of gas  |                              |                      |
|       | B0410098A                  |                  |                |     | close to fire and moved it. The gasoline spilled   |                              |                      |
| 112   | 040105HCC1312              | 12/22/2003       | 8              | М   | and caught fire. The victim fell in the fire.  | Shirt                        | Yes                  |

| Count | Document<br>Number | Incident<br>Date | Age       | Sex      | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|--------------------|------------------|-----------|----------|---|------------------------------|----------------------|
|       |                    |                  |           |          | The victim was trying to light a bug candle. He lit   |                              |                      |
|       |                    |                  |           |          | the lighter, not noticing that there was a container<br>of gasoline a short distance away. As soon as the |                              |                      |
|       | B03C0088A          |                  |           |          | lighter ignited, he found his shirt and face  |                              |                      |
| 113   | 031229HCC1293      | 12/23/2003       | 13        | М        | engulfed in flames.   | Shirt                        | No                   |
|       |                    |                  |           |          | The victim was playing around a garbage can that  | Shirt, Pants,                |                      |
|       | B03C0094A          |                  |           |          | contained flammables (in an auto body shop). He   | Coat,                        |                      |
| 114   | 031230HCC2222      | 12/23/2003       | 11        | М        | was playing with a lighter.   | Underwear                    | No                   |
|       |                    |                  |           |          | The victim was with her father when the incident  |                              |                      |
|       |                    |                  |           |          | occurred. There was an explosion. It is possible  |                              |                      |
|       | B03C0093A          | 4.0.100.100.000  | _         | _        | that the father was attempting suicide. No  |                              |                      |
| 115   | 031229HCC3123      | 12/23/2003       | 7         | F        | information will be released by officials.  | Shirt, Pants                 | Unknown              |
|       | B03C0095A          |                  |           |          | The victim was jumping over campfire embers while another person tossed gasoline onto                     |                              |                      |
| 116   | 040102HCC2228      | 12/24/2003       | 14        | М        | embers, increasing flame size.  | Warm up suit                 | No                   |
| 110   | B0410112A          | 12/24/2003       | 17        | IVI      | The victim kicked a small gas and oil fire to put it  | wann up suit                 |                      |
| 117   | 040304HCC2357      | 12/26/2003       | 6         | М        | out.  | Pants                        | Unknown              |
|       |                    |                  |           |          | The victim was standing near a fire in a wood   |                              |                      |
|       |                    |                  |           |          | stove holding a can of gasoline. The mother   |                              |                      |
|       | I0420182A          |                  |           |          | believes the vapors ignited and caught the victim's   |                              |                      |
| 118   | 040209HCC1411      | 12/29/2003       | 8         | М        | shirt on fire.  | Shirt                        | No                   |
|       |                    |                  |           |          | The victim started throwing multiple flammables   | V1: Shirt,                   |                      |
|       | B0410114A          |                  | 14        |          | into the fire and there were multiple explosions.   | Pants<br>V2: Shirt,          |                      |
| 119   | 040120HCC3158      | 12/30/2003       | 14,<br>14 | M, M     | The victim approached a can that was hissing and it exploded.   | Shirt, Pants                 | No                   |
|       | 0101201000100      | 12,00,2000       |           | 101, 101 | The victim made a campfire in a pit with gasoline   |                              |                      |
|       |                    |                  |           |          | and diesel fuel. The fuel got splashed on the   |                              |                      |
|       | B0410102A          |                  |           |          | victim. When the victim got close to the fire, he   |                              |                      |
| 120   | 040108HCC3142      | 12/31/2003       | 9         | М        | burst into flames.  | Pants, Shirt                 | No                   |

| Count | Document<br>Number | Incident<br>Date | Age | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|--------------------|------------------|-----|-----|--|------------------------------|----------------------|
|       |                    |                  |     |     | The victim started a small bonfire with logs and   |                              |                      |
|       |                    |                  |     |     | sticks. He poured gasoline on the logs and lit a   |                              |                      |
|       | B0410109A          |                  |     |     | match then he sat down on an old metal gas can.<br>The heat ignited the fumes in the can and the can |                              |                      |
| 121   | 040115HCC1353      | 12/31/2003       | 14  | М   | exploded.  | Shorts                       | No                   |
| 121   | 04011311001333     | 12/31/2003       | 17  | 101 | A firecracker in the victim's pocket ignited from  | 010113                       |                      |
|       |                    |                  |     |     | spark from a firecracker in the victim's hand. The   |                              |                      |
|       | B0410103A          |                  |     |     | garments did not ignite, but smoldered the entire  | Pants,                       |                      |
| 122   | 040107HCC1320      | 1/1/2004         | 14  | М   | time they were on the victim.  | Boxers                       | No                   |
|       |                    |                  |     |     | Propane gas wall-mounted heater overheated and   |                              |                      |
|       |                    |                  |     |     | the house caught fire. The garment was noted as  |                              |                      |
|       |                    |                  |     |     | having soot on it. The family was sleeping and   |                              |                      |
| 400   | B0410100A          | 4/0/0004         |     |     | tried to get out of house. They were found near  | Delever                      |                      |
| 123   | 040106HCC2249      | 1/2/2004         | 4   | М   | the door.Another child was putting gas on a fire, got scared   | Pajamas                      | Yes                  |
|       | B0410108A          |                  |     |     | about the cup catching fire, threw the cup and gas   |                              |                      |
| 124   | 040115HCC1352      | 1/4/2004         | 12  | М   | got on victim. The victim's shirt caught fire.   | Shirt                        | Yes                  |
|       |                    |                  |     |     | Children were burning leaves in a 5-gallon bucket  |                              | 100                  |
|       |                    |                  |     |     | and one child poured gasoline and flames went  |                              |                      |
|       |                    |                  |     |     | into air. The victim left to get help and another  |                              |                      |
|       |                    |                  |     |     | child kicked the bucket which sent flames into   |                              |                      |
|       |                    |                  |     |     | victim's back. The other version is that the victim  |                              |                      |
| 405   | B0410107A          | 1/5/2004         | 11  | м   | was playing with matches and gasoline and it   | T-shirt,                     | No                   |
| 125   | 040114HCC2267      | 1/5/2004         |     | IVI | exploded.<br>The victim was playing with matches when the  | Shorts<br>T-shirt,           | INO                  |
|       | 040512HCC2515      |                  |     |     | incident occurred. The investigator is unable to   | T-shirt,                     |                      |
| 126   | B0450233A          | 1/5/2004         | 4   | М   | locate the victim.   | Underwear                    | Unknown              |
|       |                    |                  | ·   |     | The victim was playing with her brother and  | 5                            |                      |
|       |                    |                  |     |     | climbed on table to get away from him. A burner  |                              |                      |
|       |                    |                  |     |     | from gas stove was left on and the "dress" the   |                              |                      |
|       | B0410119A          |                  |     |     | victim was wearing contacted the burner. "Dress"   | Maternity                    |                      |
| 127   | 040126HCC2287      | 1/6/2004         | 3   | F   | was actually a maternity shirt.  | shirt                        | No                   |

|       | Document       | Incident  |     |     |   | Specific<br>Clothing | Worn for |
|-------|----------------|-----------|-----|-----|---|----------------------|----------|
| Count |                | Date      | Age | Sex | Summary   | Worn                 | Sleeping |
| 100   | 040512HCC2509  | 1/7/0004  | 4   | N.4 | The victim started a fire by playing with a cigarette   | Jaana Caaka          | No       |
| 128   | B0450230A      | 1/7/2004  | 4   | М   | lighter in a bedroom.   | Jeans, Socks         | No       |
|       |                |           |     |     | Kids in an apartment complex started a fire with  |                      |          |
|       | B0410117A      |           |     |     | lighter fluid. The victim attempted to put out the fire by stomping on it when his pants caught on  |                      |          |
| 129   | 040122HCC1355  | 1/7/2004  | 13  | М   | fire. The flames were contained within jeans.   | Jeans                | No       |
| 129   | 040512HCC2508  | 1/1/2004  | 15  |     | Two brothers were playing with a lighter trying to  | Jeans                | NO       |
| 130   | B0450231A      | 1/10/2004 | 10  | м   | catch each other person on fire.  | Shirt                | No       |
| 100   | D0430231A      | 1/10/2004 | 10  |     | The victim's mother had left a candle burning in a  | Onne                 | NO       |
|       |                |           |     |     | room. The victim went into the room and tried to  |                      |          |
|       | 040512HCC2507  |           |     |     | burn off a thread from his shirt, catching his  |                      |          |
| 131   | B0450232A      | 1/12/2004 | 4   | М   | sleeve on fire.   | Shirt                | No       |
|       |                |           |     |     | The victim was siphoning gas from a 55G drum to   |                      |          |
|       |                |           |     |     | a smaller container for a car. He spilled it on his t-  |                      |          |
|       | B0410122A      |           |     |     | shirt and pants. A friend came up to the victim   |                      |          |
| 132   | 040130HCC3166  | 1/15/2004 | 13  | Μ   | with a lighter and lit the shirt.   | T-Shirt, Pants       | No       |
|       | B0420127A      |           |     |     | The victim was hospitalized for burns when he   |                      |          |
| 133   | 040204HCC2320  | 1/15/2004 | 12  | М   | stumbled into a stove and his pajamas caught fire.  | Pajamas              | Yes      |
|       |                |           |     |     | The victim had wet her bed, showered and then   |                      |          |
|       |                |           |     |     | changed into her mom's slip and gone back to  |                      |          |
|       |                |           |     |     | sleep. During the night, a blanket or bed spread  |                      |          |
|       | D04404044      |           |     |     | contacted an electric space heater causing a  |                      |          |
| 101   | B0410124A      | 4/40/0004 | 44  | -   | trailer fire. No information was available beyond   |                      | Vee      |
| 134   | 040130HCC2303  | 1/16/2004 | 11  | F   | fire report.  | Adult slip           | Yes      |
|       | B0410118A      |           |     |     | The victim's father put gas or diesel fuel on a brush to get rid of trash. The fire flashed and the |                      |          |
| 135   | 040120HCC2282  | 1/17/2004 | 2   | М   | victim's shirt was singed.  | Shirt, Pants         | No       |
| 100   | 07012011002202 | 1/17/2004 | 2   | IVI | The victim lit a starter log and then put it in a can   | onin, ranto          | INU      |
|       | B0420129A      |           |     |     | of carburetor cleaner thinking that the can   |                      |          |
| 136   | 040209HCC3177  | 1/21/2004 | 6   | М   | contained water. The fire flashed up in his face.   | T-shirt              | No       |

| Count | Document<br>Number         | Incident<br>Date | Age      | Sex  | Summary  | Specific<br>Clothing<br>Worn                       | Worn for<br>Sleeping |
|-------|----------------------------|------------------|----------|------|--|--|----------------------|
|       | B0410120A                  |                  |          |      | The victim was developmentally delayed. He reached across a hot burner to make noodles and his sweater contacted the burner. The sweater   | Shirt,   | Yes-Tsp-shirt        |
| 137   | 040126HCC2286              | 1/22/2004        | 7        | М    | and t-shirt both caught fire.  | Sweater  | No-Sweater           |
|       | B0410123A<br>B0430184A     |                  |          |      | The shirt and matching underwear were intended<br>to be undergarments but sometimes worn as<br>sleepwear. The victim leaned over a candle and<br>part of her shirt contacted the flame and the shirt   |  |                      |
| 138   | 040129HCC1371              | 1/24/2004        | 10       | F    | caught fire.   | T-shirt  | Yes                  |
| 139   | B0420133A<br>040209HCC3175 | 1/25/2004        | 4,<br>10 | M, M | Two victims were hospitalized for burns after their<br>shirt and jeans caught fire from a mattress fire.<br>The children were playing with la ighter.  | V1: Shirt,<br>Flannel shirt,<br>Jeans<br>V2: Jeans | No                   |
| 140   | B0420146A<br>040227HCC1467 | 1/27/2004        | 14       | F    | The victim was in shop class using a blow torch<br>when a piece of molten metal fell from the car she<br>was working on overhead and into the jacket   | Lab Coat   |                      |
| 140   | B0420132A<br>040209HCC3176 | 1/28/2004        | 5        | F    | sleeve causing it to ignite.<br>The victim and a friend were playing with a<br>cigarette lighter and someone decided to light the<br>victim's shirt.   | Pullover shirt                                     | No                   |
| 141   | B0420125A<br>040202HCC2317 | 1/28/2004        | 14       | M    | The victim and a friend were "messing around"<br>with a BBQ pit trying to light charcoals. They<br>poured lighter fluid on the charcoals and struck a<br>match to light it. The victim was standing too close<br>and his clothes caught fire. Pants caught, then<br>shirt. | T-Shirt,<br>Sweatpants                             | Unknown              |
| 142   | B0420144A<br>040224HCC2339 | 1/31/2004        | 5        | M    | The victim was filling a lighter with lighter fluid and spilled some on self. He caught his shirt on fire.   | Shirt  | No                   |

| Count | Document<br>Number | Incident<br>Date | Age  | Sex | Summary  | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|--------------------|------------------|------|-----|--|------------------------------|----------------------|
|       |                    |                  |      |     | The victim and a sibling were laying on a blanket  |                              |                      |
|       |                    |                  |      |     | in the living room. The 3 y/o sibling was playing with matches near the blanket. The sibling         |                              |                      |
|       |                    |                  |      |     | dropped a match and caught the blanket on fire.  |                              |                      |
|       | B0420131A          |                  | 9    |     | The victim tried to crawl away, but sustained  |                              |                      |
| 144   | 040206HAA1404      | 2/4/2004         | mos. | М   | burns. Romper suit melted at points of contact.  | Sleeper                      | Yes                  |
|       |                    |                  |      |     | The victim and a friend went to cook on a gas grill.   |                              |                      |
|       | B0420140A          |                  |      |     | The friend went to light the grill when a nearby milk jug containing gasoline exploded and ignited   | Corduroy                     |                      |
| 145   | 040218HCC1443      | 2/7/2004         | 13   | М   | the boys pants.  | Pants                        | No                   |
|       |                    |                  |      |     | The victim and a friend had a bonfire and were   |                              |                      |
|       |                    |                  |      |     | throwing paint cans into fire. One can didn't  |                              |                      |
|       | 10420181A          | 0/7/000/         | 10   |     | explode, so they went up and hit it with a hammer.   |                              |                      |
| 146   | 040209HCC1410      | 2/7/2004         | 10   | М   | It exploded.   | Jacket                       | No                   |
|       | B0420141A          |                  |      |     | The victim was injured in a house fire started by a candle that was knocked over. All the family was | T-shirt,                     |                      |
| 147   | 040223HCC2337      | 2/7/2004         | 2    | F   | sleeping at the time of the fire.  | Underwear                    | Yes                  |
|       |                    |                  |      |     | The victim was leaning over a dresser to look in a   |                              |                      |
|       | B0420147A          |                  |      |     | mirror when his shirt contacted a lit candle and   |                              |                      |
| 148   | 040227HCC1466      | 2/16/2004        | 12   | М   | caught fire.   | T-shirt                      | No                   |
|       | B0420143A          |                  |      |     | The cause of the fire is questionable, but something caused an explosion in a shed and it            |                              |                      |
| 149   | 040224HCC1453      | 2/16/2004        | 13   | М   | caught the victim's clothing on fire.  | Jeans                        | No                   |
| 110   | B0420145A          | 2,10,2001        |      |     | A suspected arsonist poured gasoline on victim,  | oouno                        |                      |
| 150   | 040226HCC2344      | 2/17/2004        | 13   | F   | sibling and mother and lit them on fire.   | Unknown                      | Unknown              |
|       |                    |                  |      |     | The victim was playing with a cigarette lighter that   |                              |                      |
| 151   | B0420142A          | 2/21/2004        | 6    | F   | she got out of the glove compartment of the car  | Sundress,                    | No                   |
| 101   | 040223HCC1449      | 2/21/2004        | 6    |     | and caught her clothing on fire.<br>The victim and friends were burning an ant hill.                 | Sportsbra                    | No                   |
|       | B0440200A          |                  |      |     | The victim picked up a partially filled gasoline can   |                              |                      |
| 152   | 040406HCC1579      | 2/21/2004        | 12   | М   | to move away from the heat and it caught fire.   | T-shirt, Jeans               | No                   |

|       | Document                   | Incident  |     |     |   | Specific<br>Clothing | Worn for |
|-------|----------------------------|-----------|-----|-----|---|----------------------|----------|
| Count | Number                     | Date      | Age | Sex | Summary   | Worn                 | Sleeping |
|       | B0440191A                  |           |     |     | The victim was with his family at a religious   |                      |          |
| 153   | 040405HCC2440              | 2/22/2004 | 8   | М   | function. Candles were burning and the child got too close to the candles and his clothing ignited. | Unknown              | No       |
| 155   | 04040311002440             | 2/22/2004 | 0   | 101 | Children were playing near a trash fire. The victim   | UTIKITOWIT           | INO      |
|       |                            |           |     |     | had multiple physical and mental health problems  |                      |          |
|       |                            |           |     |     | and fell into the trash fire while his parents were   |                      |          |
|       | B0430183A                  |           |     |     | inside. The jacket sleeves melted and stuck to  |                      |          |
| 154   | 040317HCC1514              | 2/24/2004 | 3   | М   | hands.  | Jacket               | Unknown  |
|       |                            |           |     |     | The victim was preparing soup and caught her  |                      |          |
|       |                            |           |     |     | sleeve on fire. She attempted to put out the fire by  |                      |          |
| 155   | B0430182A<br>040317HCC1508 | 2/25/2004 | 13  | F   | patting her back and shoulders and the fire spread  | Shirt                | Unknown  |
| 155   | 040317 FLC 1506            | 2/25/2004 | 13  | Г   | to other parts of her body in the meantime.<br>The victim borrowed a pair of sweatpants from a      | Shint                | UNKNOWN  |
|       |                            |           |     |     | friend's dad. The sweatpants were in the garage   |                      |          |
|       |                            |           |     |     | and evidently had a flammable liquid on them. A   |                      |          |
|       | B0430164A                  |           |     |     | friend dropped a cigarette and the cigarette lit the  |                      |          |
| 156   | 040304HCC1484              | 2/26/2004 | 14  | М   | victim's sweatpants.  | Sweatpants           | No       |
|       |                            |           |     |     | The victim attempted to start a fire in a neighbor's  |                      |          |
|       | B0430172A                  |           |     |     | backyard with either matches or a lighter. His shirt  |                      |          |
| 157   | 040310HCC3211              | 2/26/2004 | 9   | М   | ignited. He is not willing to talk about the incident.  | Shirt, Pants         | Unknown  |
|       | B0440192A                  |           |     |     | The victim was playing with a lighter and ignited   |                      |          |
| 158   | 040405HCC2439              | 2/28/2004 | 11  | М   | his clothing.   | Unknown              | No       |
|       |                            |           |     |     | The victim was burning leaves with his  |                      |          |
|       | B0430181A                  |           |     |     | grandfather who left victim unattended. The victim threw gasoline onto leaves. His shirt and pants  |                      |          |
| 159   | 040316HCC1505              | 2/28/2004 | 9   | М   | caught fire.  | Shirt, Pants         | No       |
| 100   | 0-001011001000             | 2,20,2004 | 5   | 101 | A victim and friend were lighting things on fire.   |                      |          |
|       |                            |           |     |     | They poured gasoline onto a whiffle ball, lit the   |                      |          |
|       | B0430163A                  |           |     |     | ball and kicked the ball. As he did so, the pant leg  |                      |          |
| 160   | 040304HCC1485              | 2/29/2004 | 13  | М   | caught fire.  | Jeans                | No       |

| Count | Document<br>Number | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|--------------------|------------------|-----|-----|---|------------------------------|----------------------|
| count | Nullibei           | Date             | Aye | Jex | The victim lit a match to see inside of a can of gas  | WOITI                        | Sleeping             |
|       |                    |                  |     |     | that he had dropped a wire inside. The gas lit and  |                              |                      |
|       | B0430170A          |                  |     |     | the victim ran and spilled gas on his clothes which   |                              |                      |
| 161   | 040310HCC3213      | 3/1/2004         | 14  | М   | ignited.  | Jeans                        | No                   |
| 1     |                    |                  |     |     | The victim was burned when running from a   |                              |                      |
| 100   | B0430166A          | 0/0/0004         |     |     | burning home. The boy ran out the door directly   | T-shirt,                     |                      |
| 162   | 040308HCC3206      | 3/3/2004         | 11  | М   | into flames of a back draft.<br>The victim was in a bedroom, playing with                         | Boxers                       | Unknown              |
|       | B0430174A          |                  |     |     | matches and set the bedding on fire which   |                              |                      |
| 163   | 040310HCC1499      | 3/4/2004         | 8   | F   | subsequently caught her shirt on fire.  | Shirt                        | No                   |
|       |                    |                  |     |     | The victim was at a gas station when someone  |                              |                      |
|       | B0430176A          |                  |     |     | threw a cigarette and it hit a small pool of gas at   |                              |                      |
| 164   | 040315HCC2383      | 3/5/2004         | 11  | М   | the victim's feet.  | Pants, Shoe                  | No                   |
|       |                    |                  |     |     | The victim went into the kitchen unsupervised and   |                              |                      |
| 405   | B0430188A          | 2/5/2004         | _   | -   | turned on the stove to cook. She caught her shirt   | Ohint                        | No.                  |
| 165   | 040401HCC3234      | 3/5/2004         | 5   | F   | on fire.<br>The victim and friends made a fire ring in the  | Shirt                        | Yes                  |
|       |                    |                  |     |     | grass to cook hot dogs. One kid had a bottle with   |                              |                      |
|       |                    |                  |     |     | gasoline in it, he threw it at the smoldering fire, it  |                              |                      |
|       | B0430178A          |                  |     |     | exploded and the victim's shirt and pants caught  | Jeans,                       |                      |
| 166   | 040312HCC2380      | 3/6/2004         | 13  | М   | fire.   | Sweatshirt                   | No                   |
| 1     |                    |                  |     |     | The victim (autistic) was wearing a cotton t-shirt  |                              |                      |
|       |                    |                  |     |     | and disposable diaper during the incident. He got   |                              |                      |
|       |                    |                  |     |     | confused during a house fire and didn't know how to exit the home. He was burned during the fire. |                              |                      |
|       |                    |                  |     |     | The shirt was tight fitting and believed to have  |                              |                      |
|       | B0430177A          |                  |     |     | protected him. Was burned on his head, face,  | T-shirt,                     |                      |
| 167   | 040312HCC2379      | 3/6/2004         | 12  | М   | shoulders, arms.  | Diapers                      | Yes                  |
|       |                    |                  |     |     | The victim and some friends made a campfire in a  |                              |                      |
|       |                    |                  |     |     | wooded area. They doused a sock with gasoline   |                              |                      |
| 100   | B0430171A          | 2/7/2004         | 4.4 | 54  | and lit it on fire. A friend threw some gas onto the  | Chint                        | No                   |
| 168   | 040309HCC1493      | 3/7/2004         | 11  | Μ   | fire which contacted victim and he ignited.   | Shirt                        | No                   |

|       | Document                   | Incident   |     |      |   | Specific<br>Clothing       | Worn for |
|-------|----------------------------|------------|-----|------|---|----------------------------|----------|
| Count | Number                     | Date       | Age | Sex  | Summary   | Worn                       | Sleeping |
|       |                            |            |     |      | Gas was splashed on the victim's pants by                                 |                            |          |
|       | B0430179A                  |            |     |      | another child. He was attempting to stomp out fire,                       |                            |          |
| 169   | 040317HCC1507              | 3/9/2004   | 7   | М    | but pants caught on fire.   | Jeans                      | No       |
|       |                            |            |     |      | Some boys tried to light gunpowder with a lit stick,                      |                            |          |
|       |                            |            |     |      | the gunpowder exploded and flashed into the face                          | V1:                        |          |
|       | B0430186A                  |            | 11, |      | of V1 blowing his cap off and lighting his                                | Sweatshirt,                |          |
| 170   | 040319HCC3215              | 3/10/2004  | 11  | М, М | sweatshirt, V2's pants caught fire.                                       | V2: Pants                  | No       |
|       |                            |            |     |      | The victim soaked a tennis ball and leaves with                           |                            |          |
|       |                            |            |     |      | gasoline/oil mixture. He lit the tennis ball, then                        |                            |          |
|       | <b>DO 400 400 A</b>        |            |     |      | kicked it near the leaves. The nearby gas tank                            | <b>A A A A A A A A A A</b> |          |
| 474   | B0430180A                  | 0/40/0004  | 10  |      | caught fire and flashed and caught victim's                               | Sweatshirt,                | NI-      |
| 171   | 040317HCC1506              | 3/12/2004  | 13  | М    | clothing on fire, which had some gas/oil on it also.                      | Jeans                      | No       |
|       | D04004054                  |            |     |      | The victim lit paper from the stove that was left on                      |                            |          |
| 170   | B0430185A                  | 2/14/2004  | 2   | М    | with food on it to cook. His sister came in and saw                       | Shirt                      | No       |
| 172   | 040317HCC1515<br>B0440209A | 3/14/2004  | 3   | IVI  | his shirt was on fire.<br>The victim got too close to a natural gas space | Shin                       | No       |
| 173   | 040413HAA1603              | 3/22/2004  | 6   | F    | heater and her dress caught fire.   | Dress                      | Yes      |
| 175   | 040413HAA1003              | 3/22/2004  | 0   |      | The victim's family was outside working on car's                          | DIESS                      | 165      |
|       |                            |            |     |      | gas tank when something sparked and there was                             |                            |          |
|       | B0430187A                  |            |     |      | an explosion. The child was nearby and his                                | T-shirt,                   |          |
| 174   | 040330HCC1562              | 3/24/2004  | 3   | М    | clothing caught fire.   | Sweatpants                 | No       |
|       | 040518HCC2525              | 0/2 1/2001 | Ŭ   |      | The victim was playing with gasoline and his pant                         | Owedtpulle                 |          |
| 175   | B0450240A                  | 3/26/2004  | 13  | м    | leg caught fire. The flame went up his pants.                             | Pants                      | No       |
|       |                            |            |     |      | The victim was throwing either her blanket or                             |                            |          |
|       |                            |            |     |      | stuffed animal in the air and it landed on top of the                     |                            |          |
|       |                            |            |     |      | hot halogen lamp bulb. The item then fell back                            |                            |          |
|       |                            |            |     |      | into the chair the child was sitting in. The material                     |                            |          |
|       |                            |            |     |      | scorched her hair, her foot and a section of the                          |                            |          |
|       |                            |            |     |      | pajamas, but they did not fully ignite. The fire                          |                            |          |
| 176   | 040329CCN0462              | 3/26/2004  | 4   | F    | spread to an apartment fire.  | Nightgown                  | Yes      |
|       | B0440210A                  |            |     |      | The victim was playing with his mother's lighter                          |                            |          |
| 177   | 040413HCC1606              | 3/27/2004  | 7   | М    | and caught his shirt on fire.   | Dress shirt                | No       |

| Count | Document<br>Number | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|--------------------|------------------|-----|-----|---|------------------------------|----------------------|
|       |                    |                  |     |     | The victim was with friends in an alley behind a      |                              |                      |
|       |                    |                  |     |     | house trying to light paper on fire. A friend went to |                              |                      |
|       | B0440202A          |                  |     |     | throw gas on the paper and somehow the victim         | Shirt, Shirt,                |                      |
| 178   | 040407HCC2443      | 3/28/2004        | 11  | М   | was ignited.  | Jeans                        | Unknown              |
| 1     |                    |                  |     |     | The victim was building a campfire and spilled gas    |                              |                      |
|       | B0440207A          |                  |     |     | on his jeans. The victim tried to extinguish the fire |                              |                      |
| 179   | 040409HCC2458      | 4/3/2004         | 11  | М   | by stomping on it and caught his jeans on fire.       | Jeans                        | No                   |
| l     |                    |                  |     |     | The victim and his family were sitting around a       |                              |                      |
|       |                    |                  |     |     | warming fire on the porch of a home. The adults       |                              |                      |
|       |                    |                  |     |     | went inside and the victim and friend poured          |                              |                      |
| 400   | B0440204A          | 4/4/0004         |     |     | lighter fluid on the fire. Some fluid got on the      | Flannel lined                |                      |
| 180   | 040408HCC3253      | 4/4/2004         | 14  | М   | victim and his side caught fire. Victim is blind.     | shirt/jacket                 | No                   |
|       |                    |                  |     |     | A fire started in the victim's bedroom. Dad had to    |                              |                      |
|       |                    |                  |     |     | get the victim out from outside through a window.     |                              |                      |
| 404   | B0440215A          | 4/4/0004         |     |     | The trailer burned completely. The boy was            | <b>-</b>                     | N/                   |
| 181   | 040414HCC2465      | 4/4/2004         | 8   | М   | burned during the trailer fire.                       | T-shirt, Jeans               | Yes                  |
|       |                    |                  |     |     | The victim's grandmother started a fire in a 22       |                              |                      |
|       |                    |                  |     |     | gallon barrel to burn branches, using gasoline.       |                              |                      |
|       |                    |                  |     |     | Later, when fire was thought to be out, the victim    |                              |                      |
|       | 040517HCC2521      |                  |     | _   | picked up a gas can, spilled some on herself and      |                              |                      |
| 182   | B0450241A          | 4/7/2004         | 3   | F   | reached over fire barrel, igniting clothing.          | Shirt                        | No                   |
|       |                    |                  | 1   |     | The victim and two other boys were burning trash      |                              |                      |
|       | D04400444          |                  |     |     | outside. The victim stepped close to the fire when    |                              |                      |
| 400   | B0440214A          | 4/7/0004         |     |     | perceived to have died down. A friend squirted        | Objet Object                 | Nie                  |
| 183   | 040413HCC1611      | 4/7/2004         | 9   | М   | gasoline on the fire and the victim caught fire.      | Shirt, Shorts                | No                   |
|       | D04400404          |                  |     |     | The victim was outside and a neighborhood kid         |                              |                      |
| 104   | B0440213A          | 4/0/2004         | 10  | NA  | kicked a gas can by an old fire pit that was          | Chint Chants                 | No                   |
| 184   | 040413HCC1610      | 4/8/2004         | 10  | М   | smoldering and the fire flashed.                      | Shirt, Shorts                | No                   |
|       | D04400404          |                  |     |     | The victim decided to make fire with sticks and       |                              |                      |
| 405   | B0440216A          | 4/0/0004         |     |     | gasoline in a barn. The gasoline can exploded         | 1                            | N                    |
| 185   | 040414HCC2464      | 4/8/2004         | 11  | Μ   | and caught the victim's pants and the barn on fire.   | Jeans                        | No                   |

| Count | Document<br>Number         | Incident<br>Date | Age | Sex | Summary   | Specific<br>Clothing<br>Worn | Worn for<br>Sleeping |
|-------|----------------------------|------------------|-----|-----|---|------------------------------|----------------------|
|       |                            |                  |     |     | The stove was turned on to warm a pizza. While  |                              |                      |
|       | B0440218A                  |                  |     |     | leaning over the gas range, the victim turned on  |                              |                      |
| 186   | 040416HCC1625              | 4/9/2004         | 8   | М   | the burner, igniting his shirt.   | Shirt                        | No                   |
|       |                            |                  |     |     | The victim states a brother was putting gasoline  |                              |                      |
|       | B0440211A                  |                  |     |     | onto a trash fire. Some gas accidentally got onto   | T-Shirt,                     |                      |
| 187   | 040413HCC1604              | 4/10/2004        | 10  | М   | the victim's clothing when his brother put the gas<br>can down and the victim's clothing caught fire. | Jogging suit                 | No                   |
| 107   | 0404130001004              | 4/10/2004        | 10  | IVI | The victim held a plastic rubber ball over a candle.  | Jogging suit                 | INU                  |
|       |                            |                  |     |     | The ball started to smolder and the victim dropped  |                              |                      |
|       | B0440212A                  |                  |     |     | the ball onto himself. The clothing melted and  | Long sleeve                  |                      |
| 188   | 040413HCC1612              | 4/11/2004        | 4   | М   | smoldered.  | shirt                        | No                   |
|       |                            |                  |     |     | The victim and a sibling were sleeping on the floor   |                              |                      |
|       |                            |                  |     |     | and a candle was lit on nightstand. Someone   |                              |                      |
|       | B0440217A                  |                  |     |     | kicked the nightstand and the candle fell onto the  |                              |                      |
| 189   | 040414HAA2463              | 4/11/2004        | 7   | М   | victim. The shirt caught fire.  | T-shirt                      | Yes                  |
|       |                            |                  |     |     | The victim was lighting a fire with wood and  |                              |                      |
| 400   | 040517HCC2520              | 4/4 4/000 4      |     |     | gasoline. The fire shot back at him and lit his   | 1                            |                      |
| 190   | B0450242A                  | 4/14/2004        | 11  | М   | jeans on fire.  | Jeans                        | No                   |
|       | B0440205A                  |                  |     |     | The victim started a fire on the ground using a   |                              |                      |
| 191   | 04040205A<br>040408HCC1595 | 4/16/2004        | 11  | М   | mixture of gasoline and oil. Gasoline spilled on his pants and they ignited.                          | Cargo Pants                  | Unknown              |
| 191   | 04040011001393             | 4/10/2004        |     | IVI | The victim took a lighter off of an entertainment   | Cargo Parits                 | UTIKITOWIT           |
|       | B0440220A                  |                  |     |     | center and went into the bathroom and shut the  | Long sleeve                  |                      |
| 192   | 040426HCC2481              | 4/19/2004        | 3   | F   | door. She somehow ignited her shirt.  | shirt                        | No                   |
|       |                            |                  |     |     | The victim was hiding from his brother under a  |                              | _                    |
|       |                            |                  |     |     | blanket. The brother got a lighter and lit the  |                              |                      |
|       | B0440221A                  |                  |     |     | blanket on fire. The shorts had melted blanket on   |                              |                      |
| 193   | 040430HCC2488              | 4/20/2004        | 3   | М   | them.   | Shorts                       | Yes                  |
|       |                            |                  |     |     | Boys were working on a go-cart and the victim got   |                              |                      |
| 101   | B0460251A                  | 4/00/000 1       | 10  |     | gasoline on his shirt. Later in the day, one boy lit a  | Undershirt,                  |                      |
| 194   | 040604HAA1752              | 4/23/2004        | 13  | Μ   | cigarette and the shirt caught fire.  | Shirt                        | No                   |

|       |               |              | Specific |     |   |               |          |
|-------|---------------|--------------|----------|-----|---|---------------|----------|
|       | Document      | Incident     |          |     |   | Clothing      | Worn for |
| Count | Number        | Date         | Age      | Sex | Summary   | Worn          | Sleeping |
|       |               |              |          |     | There was a trash fire from the previous day. The       |               |          |
|       | B0440222A     |              |          |     | victim threw a paint can in the fire area and it        |               |          |
| 195   | 040430HCC2483 | 4/24/2004    | 8        | Μ   | exploded.   | Shirt         | No       |
|       | 040511HCC1680 |              |          |     | The victim was in a bedroom playing with a              |               |          |
| 196   | B0450239A     | 4/25/2004    | 14       | F   | cigarette lighter when she caught her shirt on fire.    | Shirt, Bra    | No       |
|       |               |              |          |     | The victim's grandmother was burning leaves and         |               |          |
|       | B0440224A     |              |          |     | as she was raking them, the victim was closer to        |               |          |
| 197   | 040430HCC1642 | 4/25/2004    | 12       | Μ   | the fire than she thought and his pants ignited.        | Pants         | No       |
|       |               |              |          |     | The victim was with her family at a Japanese            |               |          |
|       |               |              |          |     | restaurant. The chef lit alcohol on fire and the        |               |          |
|       | 040510HCC3298 |              |          |     | fumes ignited, somehow igniting the victim. Mostly      |               |          |
| 198   | B0450237A     | 4/30/2004    | 12       | F   | her face was burned, but also shoulder.                 | Shirt         | No       |
|       |               |              |          |     | The victim and his brother lit a puddle of gasoline.    |               |          |
|       | 040510HCC3297 |              |          |     | The victim was standing near the gasoline and his       |               |          |
| 199   | B0450238A     | 5/3/2004     | 6        | М   | shorts caught fire.                                     | Shorts        | No       |
|       |               |              |          |     | The victim's aunt was making hot dogs on the            |               |          |
|       | 040517HCC2519 |              |          |     | stove. The victim reached across the stove and          |               |          |
| 200   | B0450246A     | 5/12/2004    | 6        | М   | his shirt contacted a flame.                            | Shirt         | No       |
|       | 040526HAA1699 |              |          | _   | The victim was alone in the room and was playing        |               |          |
| 201   | B0450248A     | 5/15/2004    | 5        | F   | with the flame of a candle. Her shirt ignited.          | T-shirt       | No       |
|       |               |              |          |     | The victim was standing near a campfire inside of       |               |          |
|       | 040524HAA2532 |              |          |     | a tire rim and an ember jumped out and contacted        |               |          |
| 202   | B0450247A     | 5/15/2004    | 13       | М   | his pant leg.   | Flannel pants | Yes      |
|       |               |              |          |     | The victim and friends were playing outside             |               |          |
|       |               |              |          |     | unsupervised. The victim got lighter fluid on her       |               |          |
|       | B0460254A     |              | _        |     | clothing and another child lit the shirt with a         |               |          |
| 203   | 040608HCC2559 | 5/21/2004    | 7        | F   | cigarette lighter.                                      | T-shirt       | Unknown  |
|       |               |              |          |     | The victim got a firework from a babysitter, went       |               |          |
|       | B0460255A     |              |          |     | into father's car and lit the firework with a cigarette |               |          |
| 204   | 040608HCC2558 | 5/22/2004    | 5        | F   | lighter. She caught her shirt on fire.                  | Shirt         | No       |
| 0.05  | B0460250A     | E 100 1000 1 | _        |     | The victim was playing with a cigarette lighter and     |               |          |
| 205   | 040604HAA1753 | 5/23/2004    | 7        | М   | set his clothing and then the house on fire.            | Shirt, Shorts | Yes      |

| Count | Document<br>Number         | Incident<br>Date | Age | Sex | Summary  | Specific<br>Clothing<br>Worn        | Worn for<br>Sleeping |
|-------|----------------------------|------------------|-----|-----|--|-------------------------------------|----------------------|
|       | B0460256A                  | 0/0/0004         |     | _   | Wind blew a spark or flame from a fire pit onto the  |                                     |                      |
| 206   | 040610HAA2571              | 6/6/2004         | 4   | F   | victim's pants and ignited them.   | Pants                               | No                   |
| 207   | B0460257A<br>040610HAA2572 | 6/7/2004         | 5   | F   | Two brothers had started a brush fire. One of the<br>boys threw gasoline on fire and it flashed out. The<br>two brothers ran away, but the victim was still<br>there and was burned.   | Shirt, Shorts                       | No                   |
| 208   | B0440208A<br>040414HCC2462 | 11/19/2004       | 12  | м   | The victim and a sibling were near a wood stove.<br>The fire was smoldering and the victim poured<br>gasoline on the smoldering fire. It flared and<br>caught his clothing on fire. The sleepwear was<br>size 14 and loose fitting | Pajamas<br>Bottoms,<br>Cuffs of top | Yes                  |
|       | B0420148A                  |                  |     |     | The victim lit his shirt on fire while playing with  |                                     |                      |
| 209   | 040301HCC3191              | 1/15/036         | 3   | М   | lighter.   | Shirt                               | No                   |

## Appendix D

This appendix includes data for the 209 in-scope incidents reported through the National Burn Center Reporting System from March 2003 through June 10, 2004. The table contains both the activity of the child preceding the incident and the ignition source involved in the incident.

|            |                            |         | Activity of Victim Preceding Incident |                                    |                                      |  |   |                              |   |                                     |                             |       |              |       |  |
|------------|----------------------------|---------|---------------------------------------|------------------------------------|--------------------------------------|--|---|------------------------------|---|-------------------------------------|-----------------------------|-------|--------------|-------|--|
|            |                            | Playing | Close<br>to<br>Source                 | Started<br>or<br>Stoking<br>Source | Accident-<br>al Contact<br>w/ Source | Another<br>Person<br>Ignited<br>Victim | Ignition<br>Source<br>fell on<br>Victim | Trying<br>to Put<br>Out Fire | Victim<br>Fell on<br>Ignition<br>Source | Spilled<br>Flamm-<br>able<br>Liquid | Using<br>Ignition<br>Source | Other | Un-<br>known | Total |  |
|            | Outdoor Fire               | 8       | 25                                    | 16                                 | 0                                    | 0                                      | 0                                       | 5                            | 6                                       | 1                                   | 0                           | 0     | 1            | 62    |  |
|            | Lighter                    | 26      | 1                                     | 3                                  | 0                                    | 7                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 37    |  |
|            | Candle                     | 1       | 1                                     | 0                                  | 11                                   | 0                                      | 1                                       | 0                            | 0                                       | 0                                   | 1                           | 2     | 1            | 18    |  |
|            | Structure Fire             | 0       | 13                                    | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 13    |  |
| ent        | Stove/Range                | 2       | 1                                     | 0                                  | 9                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 1                           | 0     | 0            | 13    |  |
| Incident   | Matches                    | 5       | 2                                     | 1                                  | 0                                    | 0                                      | 0                                       | 1                            | 0                                       | 0                                   | 0                           | 1     | 0            | 10    |  |
| ce of      | Fireworks/<br>Firecrackers | 5       | 0                                     | 0                                  | 0                                    | 0                                      | 3                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 8     |  |
| Sour       | Container Fire             | 2       | 0                                     | 1                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 1     | 0            | 4     |  |
| Ignition 8 | Explosion                  | 1       | 2                                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 1            | 4     |  |
| lgni       | Fireplace                  | 0       | 2                                     | 1                                  | 0                                    | 0                                      | 0                                       | 1                            | 0                                       | 0                                   | 0                           | 0     | 0            | 4     |  |
|            | Heater                     | 0       | 0                                     | 0                                  | 3                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 3     |  |
|            | Grill                      | 0       | 0                                     | 3                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 3     |  |
|            | Hot Water<br>Heater        | 0       | 0                                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 3                                   | 0                           | 0     | 0            | 3     |  |
|            | Lawn<br>Equipment          | 0       | 3                                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 3     |  |

# Appendix D continued.

|          |                        |         |                       |                                    |                                      | Activ                                  | vity of Victi                           | m Precedin                   | g Incident                              |                                     |                             |       |              |       |
|----------|------------------------|---------|-----------------------|------------------------------------|--------------------------------------|--|---|------------------------------|---|-------------------------------------|-----------------------------|-------|--------------|-------|
|          |                        | Playing | Close<br>to<br>Source | Started<br>or<br>Stoking<br>Source | Accident-<br>al Contact<br>w/ Source | Another<br>Person<br>Ignited<br>Victim | Ignition<br>Source<br>fell on<br>Victim | Trying<br>to Put<br>Out Fire | Victim<br>Fell on<br>Ignition<br>Source | Spilled<br>Flamm-<br>able<br>Liquid | Using<br>Ignition<br>Source | Other | Un-<br>known | Total |
|          | Product set<br>on fire | 2       | 0                     | 1                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 3     |
| e        | Cigarette              | 0       | 0                     | 0                                  | 0                                    | 0                                      | 2                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 2     |
| Source   | Halogen<br>Lamp        | 0       | 0                     | 0                                  | 1                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 1     | 0            | 2     |
| Ignition | Other                  | 1       | 1                     | 0                                  | 0                                    | 1                                      | 1                                       | 0                            | 0                                       | 0                                   | 1                           | 3     | 0            | 8     |
| lgn      | Unknown                | 4       | 2                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 3            | 9     |
|          | Total                  | 57      | 53                    | 26                                 | 24                                   | 8                                      | 7                                       | 7                            | 6                                       | 4                                   | 3                           | 8     | 6            | 209   |

## Appendix E

This appendix contains data for the 209 in-scope incidents reported through the National Burn Center Reporting System from March 2003 through June 10, 2004. The table shows the ages of the children involved in the incidents with the activities of the children preceding the incident.

|        |       |         |                    |                                    |  | Ac                                     | tivity of Vic                           | tim Precedi                  | ng Incident                             |                                     |                             |       |              |       |
|--------|-------|---------|--------------------|------------------------------------|--|--|---|------------------------------|---|-------------------------------------|-----------------------------|-------|--------------|-------|
|        |       | Playing | Close to<br>Source | Started<br>or<br>Stoking<br>Source | Accident<br>-al<br>Contact<br>w/<br>Source | Another<br>Person<br>Ignited<br>Victim | lgnition<br>Source<br>fell on<br>Victim | Trying to<br>Put Out<br>Fire | Victim<br>Fell on<br>Ignition<br>Source | Spilled<br>Flamm-<br>able<br>Liquid | Using<br>Ignition<br>Source | Other | Un-<br>known | Total |
|        | <1    | 0       | 4                  | 0                                  | 0  | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 4     |
|        | 1     | 0       | 1                  | 0                                  | 1  | 0                                      | 0                                       | 0                            | 1                                       | 0                                   | 0                           | 0     | 0            | 3     |
|        | 2     | 0       | 3                  | 0                                  | 1  | 0                                      | 0                                       | 0                            | 1                                       | 1                                   | 0                           | 0     | 1            | 7     |
|        | 3     | 3       | 5                  | 0                                  | 1  | 1                                      | 1                                       | 0                            | 2                                       | 1                                   | 0                           | 1     | 0            | 15    |
|        | 4     | 8       | 4                  | 0                                  | 1  | 0                                      | 0                                       | 0                            | 2                                       | 0                                   | 1                           | 1     | 1            | 18    |
|        | 5     | 8       | 1                  | 1                                  | 3  | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 1                           | 0     | 0            | 14    |
| E      | 6     | 4       | 1                  | 0                                  | 2  | 0                                      | 0                                       | 1                            | 0                                       | 0                                   | 0                           | 1     | 0            | 9     |
| Victim | 7     | 3       | 5                  | 2                                  | 4  | 3                                      | 1                                       | 0                            | 0                                       | 0                                   | 1                           | 2     | 0            | 21    |
| of     | 8     | 3       | 3                  | 1                                  | 3  | 0                                      | 1                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 11    |
| Age    | 9     | 5       | 4                  | 0                                  | 0  | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 9     |
|        | 10    | 6       | 6                  | 1                                  | 3  | 2                                      | 0                                       | 1                            | 0                                       | 0                                   | 0                           | 0     | 0            | 19    |
|        | 11    | 7       | 6                  | 7                                  | 1  | 0                                      | 1                                       | 2                            | 0                                       | 1                                   | 0                           | 1     | 0            | 26    |
|        | 12    | 2       | 4                  | 4                                  | 3  | 0                                      | 0                                       | 1                            | 0                                       | 0                                   | 0                           | 0     | 0            | 14    |
|        | 13    | 5       | 5                  | 6                                  | 1  | 2                                      | 0                                       | 1                            | 0                                       | 0                                   | 0                           | 1     | 4            | 25    |
|        | 14    | 6       | 2                  | 4                                  | 0  | 0                                      | 3                                       | 1                            | 0                                       | 1                                   | 0                           | 1     | 0            | 18    |
|        | Total | 60      | 54                 | 26                                 | 24   | 8                                      | 7                                       | 7                            | 6                                       | 0                                   | 3                           | 8     | 6            | 213   |

## Appendix F

This appendix contains data for clothing not worn for sleeping reported through the National Burn Center Reporting System from March 2003 through June 10, 2004. The table shows the activity/ignition source combination for the 146 incidents in which the clothing that was burned was not used for sleeping.

|             |                            |         |                       |                                    |                                      | Activ                                  |   | n Precedin                   | g Incident                              |                                     |                             |       |              |       |
|-------------|----------------------------|---------|-----------------------|------------------------------------|--------------------------------------|--|---|------------------------------|---|-------------------------------------|-----------------------------|-------|--------------|-------|
|             |                            | Playing | Close<br>to<br>Source | Started<br>or<br>Stoking<br>Source | Accident-<br>al Contact<br>w/ Source | Another<br>Person<br>Ignited<br>Victim | Ignition<br>Source<br>fell on<br>Victim | Trying<br>to Put<br>Out Fire | Victim<br>Fell on<br>Ignition<br>Source | Spilled<br>Flamm-<br>able<br>Liquid | Using<br>Ignition<br>Source | Other | Un-<br>known | Total |
|             | Outdoor Fire               | 7       | 20                    | 13                                 | 0                                    | 0                                      | 0                                       | 3                            | 3                                       | 1                                   | 0                           | 0     | 1            | 48    |
|             | Lighter                    | 22      | 1                     | 3                                  | 0                                    | 5                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 31    |
|             | Candle                     | 1       | 0                     | 0                                  | 6                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 1                           | 0     | 1            | 9     |
|             | Structure Fire             | 0       | 1                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 1     |
| ent         | Stove/Range                | 2       | 1                     | 0                                  | 6                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 9     |
| Incident    | Matches                    | 3       | 0                     | 0                                  | 0                                    | 0                                      | 0                                       | 1                            | 0                                       | 0                                   | 0                           | 1     | 0            | 5     |
| of          | Fireworks/<br>Firecrackers | 5       | 0                     | 0                                  | 0                                    | 0                                      | 3                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 8     |
| Source      | Container Fire             | 1       | 0                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 1     | 0            | 2     |
| Ignition \$ | Explosion                  | 1       | 0                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 1            | 2     |
| Igni        | Fireplace                  | 0       | 2                     | 0                                  | 0                                    | 0                                      | 0                                       | 1                            | 0                                       | 0                                   | 0                           | 0     | 0            | 3     |
|             | Heater                     | 0       | 0                     | 0                                  | 1                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 1     |
|             | Grill                      | 0       | 0                     | 1                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 1     |
|             | Hot Water<br>Heater        | 0       | 0                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 3                                   | 0                           | 0     | 0            | 3     |
|             | Lawn<br>Equipment          | 0       | 3                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 3     |

## Appendix F continued.

|          |                        |         |                       |                                    |                                      | Activ                                  | vity of Viction                         | n Precedin                   | g Incident                              |                                     |                             |       |              |       |
|----------|------------------------|---------|-----------------------|------------------------------------|--------------------------------------|--|---|------------------------------|---|-------------------------------------|-----------------------------|-------|--------------|-------|
|          |                        | Playing | Close<br>to<br>Source | Started<br>or<br>Stoking<br>Source | Accident-<br>al Contact<br>w/ Source | Another<br>Person<br>Ignited<br>Victim | Ignition<br>Source<br>fell on<br>Victim | Trying<br>to Put<br>Out Fire | Victim<br>Fell on<br>Ignition<br>Source | Spilled<br>Flamm-<br>able<br>Liquid | Using<br>Ignition<br>Source | Other | Un-<br>known | Total |
|          | Product set<br>on fire | 2       | 0                     | 1                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 3     |
| e        | Cigarette              | 0       | 0                     | 0                                  | 0                                    | 0                                      | 2                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 2     |
| Sour     | Halogen<br>Lamp        | 0       | 0                     | 0                                  | 1                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 0            | 1     |
| Ignition | Other                  | 1       | 1                     | 0                                  | 0                                    | 0                                      | 1                                       | 0                            | 0                                       | 0                                   | 1                           | 3     | 0            | 7     |
| lgn      | Unknown                | 3       | 2                     | 0                                  | 0                                    | 0                                      | 0                                       | 0                            | 0                                       | 0                                   | 0                           | 0     | 2            | 7     |
|          | Total                  | 48      | 31                    | 18                                 | 14                                   | 5                                      | 6                                       | 5                            | 3                                       | 4                                   | 2                           | 5     | 5            | 146   |