Hazardous Materials Module: NFIRS-7

Objectives

After completing the Hazardous Materials Module the students will be able to:

- 1. Describe when the Hazardous Materials Module is to be used.
- 2. Demonstrate how to complete the Hazardous Materials Module and identify appropriate other modules, given the scenario of a hypothetical incident.

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Pretest #7 - Hazardous Materials (HazMat) Module

1. The Basic Module must be completed if the Hazardous Materials Module is completed.

	(a) True.
	(b) False.
2.	The Hazardous Materials Module is a required NFIRS module.
	(a) True.
	(b) False.
3.	The number of civilians injured as a result of contact or exposure to a hazardous material is recorded as Casualties on the Basic Module.
	(a) True.
	(b) False.
4.	The Hazardous Materials Module can be used to record more than one hazardous material involved at the incident.
	(a) True.
	(b) False.
5.	The reportable HazMat incident can be any incident type.
	(a) True.
	(b) False.

Using the Hazardous Materials Module

Use the optional Hazardous Materials Module when the Basic Module (Block H₃ – Hazardous Materials Release) indicates "other" for hazardous materials. Its purpose is to document reportable HazMat incidents. A reportable HazMat incident is one in which specialized HazMat resources were dispatched or used, or should have been dispatched or used, for assessing, mitigating, or managing the situation. The Hazardous Materials Module also is used when an incident involves a release or spill of hazardous materials that exceeds 55 gallons.

NOTE: Nothing in the NFIRS reporting system definition is meant to alter compliance with State or local HazMat reporting requirements. In States with mandatory reporting, the State program manager determines which optional modules (EMS, Hazardous Materials, Wildland, etc.) are to be submitted to the State.

The Hazardous Materials Module permits hazardous materials incidents to be profiled in depth for incident management analysis and response-strategy development. It collects relevant information on:

- hazardous materials identification;
- container information;
- release amounts and location;
- actions taken; and
- mitigating factors.

If more than one hazardous material is involved, complete one module for each HazMat released. Note that the term release is intended to include a spill.

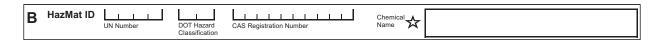
Section A: FDID, State, Incident Number, Incident Date, Exposure Number, HazMat Number

This information is essentially the same as the information in the Basic Module with the exception of the HazMat Number (Haz No.). As noted above, if more than one HazMat was involved, complete one module for each HazMat released.



Sequentially number each HazMat released in the field HazMat Number in Section A. Begin with "01" for the first chemical, "02" for the second, and so forth. In an automated system, some systems may allow you to enter data one time and it will automatically fill in all fields where that information is required in Section A. When using hard copies, you will have to enter the Section A information for every module.

Section B: HazMat ID



The purpose of Section B is to identify the specific hazardous materials involved in an incident as accurately as possible. Several different identification systems have been developed that can aid fire department personnel with identifying hazardous materials.

- UN Number (United Nations Standards for the Identification of Hazardous Materials);
- DOT Hazard Classification (Department of Transportation Classification);
- CAS Registration Number (Chemical Abstract Service Classification); and
- Chemical Name.

Not all of these systems are needed to identify the hazardous materials. In fact, in an automated NFIRS system, many of these data elements are cross-referenced in the database. By entering one piece of information, the system will automatically fill some or all of the other HazMat identification fields.

Example:

If you enter the CAS Registration Number, the NFIRS Client Tool Software System will fill in all other HazMat ID fields. No further lookup is necessary.

Chemicals are listed in the U.S. Fire Administration (USFA) publication Hazardous Materials Guide for First Responders.

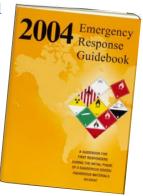
In some cases, it may take more than one piece of information to identify a hazardous material accurately.

Example:

The UN Number does not necessarily identify a specific chemical. To accurately identify the chemical, it must be used in conjunction with the chemical or trade name for that specific chemical.

The **UN Number** is a four-digit number assigned to the hazardous material that conforms to United Nations (UN) standards for the identification of hazardous materials in international transportation. These numbers may be found in a variety of reference materials. The North American Emergency Response Guidebook (NAERG) published by the Research and Special Programs Administration, U.S. Department of Transportation (DOT) is one reference.

The Hazardous Materials Guide for First Responders published by the U.S. Fire Administration is another important reference document. In some cases, a single UN Number will be assigned to several materials with similar properties. Not all hazardous materials have been assigned UN Numbers.



The primary hazards associated with various hazardous materials categories are described by the **DOT Hazard Classification System**. Hazardous materials warnings should appear on placards or labels on the materials during transportation. Since many materials have multiple hazards, the DOT

hazard classification may not describe all of the potential hazards faced by emergency responders at a HazMat incident.

The DOT hazard classification consists of a single digit hazard-class code followed by a decimal point and a single digit code for the division. For the purpose of documentation, this two-part hazard class/division code has been converted to a two-digit code. The proper entry in this field is the two-digit code that corresponds with the hazard classification and division as found on a placard or label of the hazardous material.

DOT Hazard Classifications Codes

	Class 1 – Explosives		Class 5 – 0	xidizers and Organic peroxides
11	Division 1.1 Explosives with mass explosion hazard	51	Division 5.1	Oxidizers
12	Division 1.2 Explosives with projectile hazard	52	Division 5.2	Organic peroxides
13	Division 1.3 Explosives with predominant fire hazard	Cla	ss 6 – Toxic	material and Infectious Substances
14	Division 1.4 Explosives with no significant blast	61	Division 6.1	Toxic materials
15	Division 1.5 Very insensitive explosives; blasting	62	Division 6.2	Infectious substances
16	Division 1.6 Extremely insensitive detonating articles		Class	7 - Radioactive Materials
	Class 2 – Gases	70	Radioactive	materials
21	Division 2.1 Flammable gases		Clas	s 8 – Corrosive Materials
22	Division 2.2 Non-flammable	80	Corrosive ma	aterials
23	Division 2.3 Gases toxic by inhalation			iscellaneous Dangerous Goods
24	Division 2.4 Corrosive gases (Canada)	91	Division 9.1	Miscellaneous dangerous goods
	Class 3 – Flammable/Combustible Liquids	31	DIVISION 3.1	(Canada)
30	Flammable/combustible liquids	92	Division 9.2	Environmentally hazardous substances (Canada)
	Class 4 – Flammable Solids	93	Division 9.3	Dangerous wastes (Canada)
41	Division 4.1 Flammable solids			
42	Division 4.2 Spontaneously combustible materials			
43	Division 4.3 Dangerous when wet materials			

By itself, the DOT hazard class and division does not identify a specific chemical. To do so, it must appear in conjunction with the CAS Number or chemical or trade name.

The **CAS Registration Number** is the identification number assigned to a chemical by the Chemical Abstract Service (CAS) of the Chemical Abstract Society. This number may be found in reference materials, on Material Safety Data Sheets (MSDS), and on some product labels. Not all hazardous materials have an assigned CAS Number.

In an automated system, entry of the CAS Registration Number should fill in all other HazMat ID fields without any further lookup.

The **Chemical Name** is the standard chemical or trade name by which the hazardous material is known commonly. Products from different manufacturers with similar chemical ingredients may have different trade names.

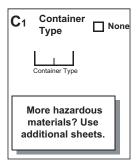
The proper entry in this field is the chemical or trade name of the hazardous material as shown on the MSDS, product label, packaging, or container.

Example:

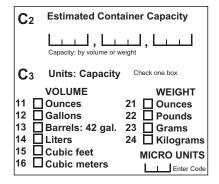
A common herbicide used for household applications may be entered by the trade name "Weed-B-GoneTM," or by the chemical name "2,4-Dichlorophonoxyacctic acid (2-4D)."

Section C: Container Information

Section C identifies the type or configuration of the container used to transport and/or store the hazardous material and the amount of material the container was designed to hold. Complete information on the types of containers involved in HazMat incidents will provide guidance to regulators that establish container design requirements, and will aid in prevention and code development efforts.

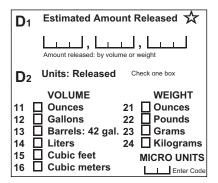


Block C₁, Container Type, refers to the type or configuration of the container, equipment, or facility used to transport and/or store the hazardous material. Enter the two-digit code for the corresponding container type from the list provided in the NFIRS Handbook or the Complete Reference Guide (CRG).



Enter the estimated amount of material the container was designed to hold, by volume or weight, in **Block C**₂. Report the container capacity as two data elements. One is a numeric entry and expresses quantity. The other defines the unit of measure—either volume or weight. Check the appropriate box in **Block C**₃. Both must be reported for the data to be meaningful.

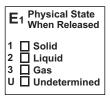
Section D: Estimated Release



The quantity of hazardous materials released also is reported as two data elements. Again, both must be reported for the data to be meaningful. Express the estimated amount of material released from a container—by volume or weight—as a whole number in **Block D**1.

Mark one box in Block D_2 to identify the appropriate unit of measure. Information on the amount of material released provides an important measure of the magnitude of the hazardous materials release problem.

Section E: Physical State When Released and Released Into



Record the simple physical State of the material (i.e., solid, liquid, gas, or undetermined) during release or when it became hazardous by marking one box in **Block E**₁.



The purpose of **Block** \mathbf{E}_2 is to provide information on the general environmental impact and, when used in conjunction with other data elements, how extensive that impact is. This field identifies the general region(s) of the environment contaminated by the hazardous material after its release.

Released Into_

Enter the code that best describes the environment contaminated by the hazardous material.

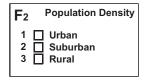
- 1. Air
- 2. Water
- 3. Ground
- 4. Water and ground
- 5. Air and ground
- 6. Water and air
- 7. Air, water, and ground
- 8. Confined, no environmental impact not released into air, water, ground

NOTE: If more than one hazardous material is involved in the incident, the remainder of the module is completed only for the first (most significant) material involved.

Section F: Released From and Population Density



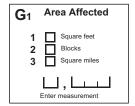
Record physical location from where the hazardous material was released in $Block\ F_1$. Was it below grade? Was it inside or outside a structure? If the release was inside (or on) a structure, record which story it occurred on?



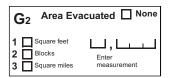
Provide a general description of the population density in the area adjacent to the hazardous materials release in **Block F**₂. Was the release in an urban, suburban, or rural area?

Section G: Area Affected, Area Evacuated, Estimated Number of People Evacuated, and Estimated Number of Buildings Evacuated

Information on the area affected by a hazardous materials release, when used in conjunction with other data elements, will assist in understanding the magnitude of the release. In turn, this information can be used to guide future training and incident management efforts.

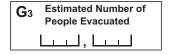


Block G₁ records the size of the area or space directly affected by the hazardous material release. Report the area affected as two data elements. The first defines the unit of measurement (square feet, blocks, or square miles). The second is a numeric entry that expresses the actual measurement. Both must be reported for the data to be meaningful.

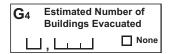


Block G₂, Area Evacuated, records the amount of area or space evacuated as a result of the hazardous material release or potential release.

Block G_2 also is reported as two data elements. The first defines the unit of measurement and the second is the numeric expression of the measurement. Again, both entries must be made for the data to be meaningful.

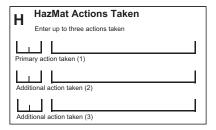


Block G₃ documents the estimated number of people evacuated due to the hazardous material release or potential release.



Block G₄ notes the estimate number of the buildings evacuated as a result of the hazardous material release or potential release.

Section H: HazMat Actions Taken



There are particular actions taken at a hazardous material release incident scene by personnel specifically trained and equipped to mitigate the hazards that might arise. In this section, you can document up to three of the most significant HazMat actions taken.

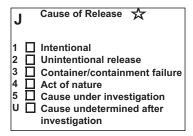
NOTE: Actions taken by fire service personnel who are not specifically trained and equipped to mitigate hazardous material incidents are recorded in the Basic Module.

Section I: Fire or Explosion Involved With a Release

I	If fire or explosion is involved with a release, which occurred first?		
	☐ Ignition ☐ Release	U Undetermined	

The purpose of this section is to collect information on the causal relationship of events occurring in situations involving fire or explosion in conjunction with a hazardous material release. Based on the box marked, it may be possible to show which occurred first—the release or the fire/explosion.

Section J: Cause of Release

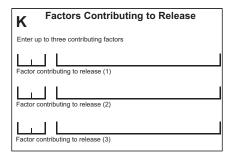


Use Section J to document the general cause of the release or threatened release of a hazardous material. Aggregate information on the cause of releases can be used to guide prevention and enforcement efforts.

Example:

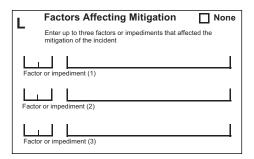
A hazardous material release resulting from a rusted drum would be recorded as "Container/containment failure."

Section K: Factors Contributing to Release



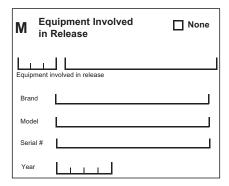
Record the factors present at the time and location of the incident that contributed to the release or threatened release in this section. You can enter up to three of the most significant contributing factors and their accompanying codes.

Section L: Mitigating Factors or Impediments



If there were factors that impeded the fire department's mitigation of the release or threatened release, record the three primary ones present at the time and location of the incident in Section L. This information is of particular importance in cases where delays in mitigating the incident may have contributed to the severity of the incident.

Section M: Equipment Involved in Release

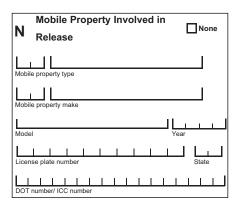


Record data about equipment that either failed, or while working properly, allowed the release or threatened release of hazardous materials in Section M. Write a description on the lines provided and enter a code for the equipment, along with the relevant brand, model, serial number, and year.

NOTE: The code set table used for this data element is the same set that is used for **equipment involved in ignition** in the Fire Module. Use the codes listed for that data element in the CRG.

Information on the type of equipment involved in the release can be used to guide prevention, enforcement, and product design efforts. Specific information on the year, brand, and serial number will assist in product recall efforts.

Section N: Mobile Property Involved in Release



Record details about mobile property that either failed, or while working properly, allowed the release or threatened release of hazardous materials here. This information can be used in prevention, enforcement, and product design efforts.

NOTE: Depending on State and local laws, specific documentation on mobile property involved in the release of a hazardous material may assist the fire department in collecting reimbursement from the responsible party for the expenses incurred in mitigating the hazardous materials incident.

The mobile property type refers to property that is designed and constructed to be mobile—movable under its own power or towed. Enter a description and code to clarify the property type. Record the property manufacturer on the line requesting "Mobile Property Make."

Model refers to the manufacturer's model name. If one does not exist, use the physical description of the property that is used commonly. Enter the year the property was manufactured. If there is a license plate affixed to the mobile property, note the plate number and State on the next line. The last line is used to enter the number assigned to the commercial carrier by the DOT. That number is generally found stenciled on the mobile property.

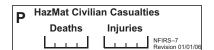
Section 0: HazMat Disposition

C)	HazMat Disposition
1		Completed by fire service only
2		Completed w/fire service present
3		Released to local agency
4		Released to county agency
5		Released to state agency
6		Released to federal agency
7		Released to private agency
8		Released to property owner or
		manager

Use Section O to indicate whether the fire department completed the handling of the HazMat incident, or, instead, it was released to another agency. This information helps identify the extent of fire department involvement in resolving the particular HazMat incident. The section also provides information about how frequently other agencies or contractors are used for incident mitigation.

Section P: HazMat Civilian Casualties

In this section, record the number of civilians killed or injured as a result of their contact with or exposure to hazardous materials that have been spilled or released. This information will provide a concise measure of the scope of human costs associated with HazMat incidents.



Make one entry to record the number of civilian deaths and the number of civilian injuries as a result of their contact or exposure to the hazardous material.

The Civilian Fire Casualty Module (NFIRS-4) should **not** be used for this purpose unless the release resulted in a fire and the civilian(s) were injured or killed as a result of the fire. Instead, the optional EMS Module (NFIRS-6) can be used for each non-fire service person killed or injured as a result of contact with or exposure to hazardous materials.

Complete the Fire Service Casualty Module (NFIRS-5) for each fire service member killed or injured as a result of contact with or exposure to hazardous materials.

SUMMARY

The optional Hazardous Materials Module is used to document reportable HazMat incidents. For an incident to be reportable, it generally requires that specialized HazMat resources either were or should have been dispatched or used. An incident also is reportable when releases or spills of hazardous materials exceed 55 gallons.

The need to comply with State or local HazMat reporting requirements is not altered by the completion of this module.

Accurate data from the Hazardous Materials Module can provide indepth information that can be used for management analysis and also for response-strategy development.

EXAMPLE: Chlorine Leak Incident

Directions: Read the call information in the example below. Then look at the completed Hazardous Materials Module form. Look at each section and follow along with the proper use of the information as applicable to the Hazardous Materials Module.

On 10/26/02, at 1705 hours, Eau Claire, WI, Department FDID #TR100, Station 001, is called to an incident at an urban commercial building that stores chlorine and other similar products. A vapor has been observed coming from a first-floor window. Engines 1 and 3, HazMat Unit 1, and Battalion 3 are dispatched and arrive on the scene at 1718 hours. The weather is cloudy, with wind conditions at 15 miles per hour, steady, coming from the south. It is 80 degrees Fahrenheit.

The building is almost 25 years old, constructed of noncombustible masonry walls. The roof is metal with composition covering. A 120-unit apartment building is located approximately 500 feet northwest of the commercial building. There are no other exposures.

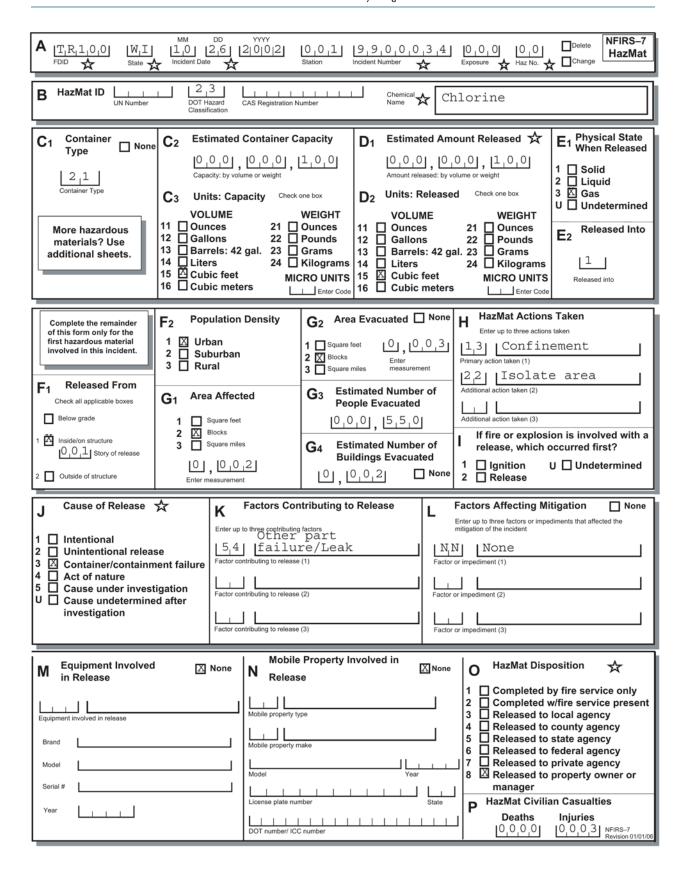
Units find a chlorine leak is of major proportions. As the fire department personnel arrive, the vapor cloud is growing, affecting an area around the building of two blocks. An employee reports that the seal at the bottom of a full 100-cubic foot chlorine gas tank has failed, and most of the gas has escaped already. Three employees have collapsed in the parking lot, breathing with difficulty, but conscious. EMS Unit 12 was dispatched. Upon arrival at the scene, Unit 12 evacuated the building and moved approximately 50 employees outside three blocks from the building.

The units on the scene conducted a primary search and did not locate any other victims. The HazMat Unit initiated vapor control and control of runoff. The EMS Unit treated the three employees for moderate chlorine gas inhalation and transported them to a local hospital, where they recovered after several days.

The residents of the apartment building were alerted and evacuated.

The gas tank leaked until all gas was released. No other tanks were affected. The incident, reported as # 9900034, was declared secure at 1935.

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EXERCISE SCENARIO 7-1: Cargo Tank Rollover

Directions: Read the call information in the exercise below. Use the information provided to complete the Hazardous Materials Module form. Compare your work to the answers provided on the completed Hazardous Materials Module form. If your answers are different from the ones provided, read over the Hazardous Materials Module again.

At 0630 hours on Monday, May 8, 1998, Buckley Fire Communications Center (FDID #TR100, Station #1) was notified that a cargo tanker had overturned on the southbound off-ramp from the 5th Street Bridge to Highway 287, Buckley, WI 12345. The Communications Center assigned the number 9802436 to the incident and dispatched two engines and one truck company (each with a crew of three), a rescue unit (two crewmembers), and a Battalion Chief. While en route, the dispatcher advised responding units that numerous calls were being received from the residential subdivision south of the incident. Citizens were reporting a foul odor and having difficulty breathing.

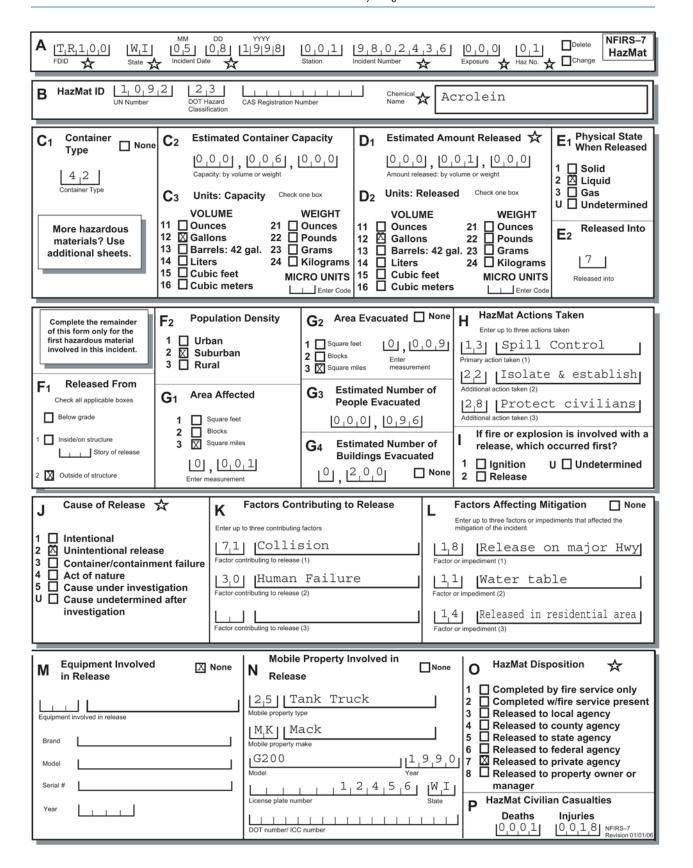
At 0636 hours, Engine 2 with a crew of four arrived on the scene and reported that a 6,000-gallon MC-307 Mack G-200, 1990, cargo tanker with a Wisconsin license plate #12456 had rolled on its side and was spilling its load down the street and into the river. The area affected was 1 square mile. Engine 2 further reported that the tanker had a placard bearing the UN ID #1092. The DOT Emergency Response Guide was used to identify the material as Acrolein, Inhibited. The truck driver was trapped in the vehicle and considered to be either unconscious or dead. Engine 2 requested that the Gorman County Hazardous Materials Response Team (FDID #08900) and a private ambulance with two personnel be dispatched.

Upon his arrival at 0640 hours, the Battalion Chief ordered an evacuation of, at least, 600 feet in all directions. He also requested the police department to evacuate a downwind area 3 miles in width and 3 miles in length. Approximately 200 homes and 96 people in this suburban area were affected by the evacuation order. The BC also requested that six more private ambulances with two persons each are dispatched to a Staging Area and ordered both highways shut down to traffic. Two additional engines with a crew of three each were dispatched to assist with the evacuation. Fire department personnel established a decontamination area and deployed protective hoselines while awaiting the HazMat Response Team.

About 30 minutes later, the two-unit, twelve-member HazMat Response Team arrived and assumed operational control of the incident. (Their incident number was 9800226.) Over the next 6 hours, the HazMat Team contained the spill by placing dikes in the street, absorbent booms in the river, and stopped the leak by securing the dome cover. The driver (who apparently died from inhalation of the vapors) was removed, decontaminated, and released to the coroner. The incident was declared under control at 1310 hours.

Eventually, the tanker was off-loaded by a private contractor and was righted. A vacuum truck and absorbent materials provided by a private contractor were used to remove the remaining chemical hazard from the street and river. It was estimated that 1,000 gallons of Acrolein was released as a result of the incident. A total of 16 civilians and two police officers complaining of respiratory distress were transported to the hospital by private ambulances. Fire department personnel suffered no casualties. The HazMat Team left the scene at 1525 hours and the last fire department unit cleared the scene at 1530 hours. Upon investigation, the State Police determined that the driver lost control of the tanker when he was exiting onto the off-ramp at an excessive speed. Part of the problem was that the brakes failed to operate properly.

MM DD YYYY FDID State Incident Date	Station Incident Number	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
B HazMat ID UN Number DOT Hazard Classification CAS Registration Nu	Chemical Name	
More hazardous materials? Use additional sheets. 11 □ Ounces 21 □ □ Gallons 22 □ □ III □ Gallons 22 □ □ III □ Gallons 22 □ □ III □ Cubic feet	Amount released: by volu D2 Units: Released WEIGHT Ounces Pounds D3 Units: Released VOLUME 11 □ Ounces 12 □ Gallons	Check one box WEIGHT 21 Ounces 22 Pounds WE2 Released Into
Complete the remainder of this form only for the first hazardous material involved in this incident. F1 Released From Check all applicable boxes Below grade I Inside/on structure	1	HazMat Actions Taken Enter up to three actions taken Primary action taken (1) Additional action taken (2) Additional action taken (3) If fire or explosion is involved with a release, which occurred first? I □ Ignition U □ Undetermined Release
J Cause of Release ★ K Factors Contributing to Release		
Release None None None Release None No	ake Year Iber State	HazMat Disposition Completed by fire service only



EXERCISE SCENARIO 7-2: HazMat I-95

Directions: Read the call information in the exercise below. Use the information provided to complete the entire Hazardous Materials Module form and other required forms. Compare your work to the answers provided in Appendix A. If your answers are different from the ones provided, read over the Hazardous Materials Module again.

The Alberta Fire Department (FDID #92188, Station 001) received a call for a truck accident on I-95 near mile marker 73 and Exit 2B in Brunswick, Virginia 23351 on May 3, 2005. The dispatcher assigned the incident (#5455) to Engine Co. 2 from Shift C. The unit received the alarm at 11:58 p.m. and arrived at the scene in 6 minutes with a four-person engine crew and a four-person truck crew.

The dispatcher received a second call from a bystander at the incident. He reported the accident and told the dispatcher that he saw cylinders in the cargo area of the vehicle. At 12:00 a.m., the dispatcher notified the fire department and dispatched their five-person HazMat Truck from Station 2. They found three cylinders in the cargo area of the vehicle. The cylinders contained Compressed Oxygen (UN# 1072, CAS Reg. #7782-44-7, DOT Hazard Class 2.2). The largest cylinder was leaking gas. The cylinder was a Type MM with a capacity of 122 cubic feet. The other two cylinders were Type M60 (60 cu. ft.). The affected area was 15 square feet. The unit established a hazard control zone of 160 square feet. Even though the hazard was on Interstate-95 and in an urban center, no people or buildings had to be evacuated because of the location of the incident. The HazMat Team moved the cylinders and stopped the leak. They estimated that 90 cubic feet of the gas escaped. There were no injuries resulting from the leak. The unit, last to clear the scene, left at 1:05 a.m.

The officer in charge was Lieutenant Dave Sanders. Firefighter John Edgely completed the incident report on May 4, 2005.

A MM DD FDID State Incident Date	YYYY Delete NFIRS-1 Change Basic No Activity
	ate that the address for this incident is provided on the Wildland Fire Alternative Location Specification." Use only for wildland fires. Street or Highway Street Type Suffix State ZIP Code
D Aid Given or Received Mutual aid received None	E1 Dates and Times Month Day Year Hour Min Check boxes if dates are the same as Alarm Date. Alarm Alarm Alarm Alarms Local Option ARRIVAL required, unless canceled or did not arrive ARRIVAL required, unless canceled or did not arrive Controlled Controlled Special Studies Last Unit Cleared Last Unit Cleared Study Value Controlled Study Value
F Actions Taken ☆ L	G1 Resources Check this box and skip this block if an Apparatus or Personnel Module is used. Apparatus Personnel Suppression EMS Other Check box if resource counts include aid received resources. G2 Estimated Dollar Losses and Values LOSSES: Required for all fires if known. Optional for non-fires. None Property Contents PRE-INCIDENT VALUE: Optional Property Contents Contents
Fire-2	7 Motor oil: from engine or portable container 60 Industrial use paints 8 Paint: from paint cans totaling <55 gallons 63 Military use
Structures 131	Clinic, clinic-type infirmary S39

