

# BUREAU OF EXPLOSIVES PUBLICATIONS

## 2006 CATALOG OF PUBLICATIONS

Since 1907 producers of reference publications for the handling of hazardous materials in transportation and responses to hazardous material incidents.

### New this year:

- NIOSH Guide to Chemical Hazards



Bureau of Explosives Publications  
P.O. Box 1020  
Sewickley, PA 15143

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## HISTORY OF THE BUREAU OF EXPLOSIVES

In 1907, following a growing number of accidents involving explosives which raised the cost to the railroads of transporting explosives, the Bureau of Explosives was created under the American Railway Association (ARA), predecessor of the Association of American Railroads (AAR). With a chemical laboratory and sixteen inspectors, the Bureau immediately took the lead in inspecting shipments, encouraging improvements in shipping techniques, and developing rules that formed the basis of all modern regulations of hazardous shipments. Although the Bureau was granted considerable powers by its constitution, which was adopted by the majority of ARA member railroads, it used the approach of encouraging compliance. This was accomplished primarily by informing and educating shippers and railroad personnel on why the rules were necessary for their safety, frequently using in their annual reports numerous examples of accidents where the rules were not followed. Soon the Bureau membership rose and, by 1912, 68 percent of all carrier track was under their guidance. Many shippers became members of the Bureau in order to utilize their expertise in the proper preparation of their shipments to withstand the rigors of transportation.

In 1908, Congress granted the Interstate Commerce Commission (ICC) power to regulate the transportation of explosives. Even though the ARA Bureau of Explosives' rules extended to more than explosives, the commission promptly adopted them and left enforcement to the Bureau. As the Bureau refined these rules, the ICC routinely adopted them as part of theirs. These procedures remained in force until the 1960s, and they sharply reduced accidents despite rapid growth in shipments of hazardous materials.

The Bureau's pioneering developments also extended beyond the railroads, for the ICC later applied its regulations to highway transportation in the 1930s, and the Coast Guard and Civil Aeronautics Board adapted them for marine and air transport as well.

Beginning in the late sixties, with the formation of the US Department of Transportation and the transfer to that Department the safety regulations of the ICC, the authority granted to the Bureau in the regulations was gradually removed. Today there is little reference to the Bureau of Explosives in the US Department of Transportation's hazardous materials regulations in 49 CFR; but the Bureau, with its inspector force and publications, remains a major and vital force in the safe transportation of hazardous materials by all modes of transportation.



**2006 Edition BOE-6000-Z**  
Loose-leaf and Bound w/supplement  
(Issued 4/29/06 w/supplements  
7/29/06, 10/29/06 & 1/29/07)



**2006 Edition BOE-6000**  
Loose-leaf and Bound version completely reissued  
each quarter  
(Issued 1/29, 4/29, 7/29 & 10/29/06)

## BOE TARIFF NO. 6000 SERIES

The BOE Tariff 6000 series contains all current Hazardous Material Regulations of the US Department of Transportation. Unlike the Code of Federal Regulations, which is published just once each year by the Government Printing Office, the BOE *Tariff* is maintained current on a quarterly basis.

The *Tariff* is available in both soft cover and loose-leaf with 3-ring binder format. The price includes three supplements. Subscribers who dislike working with supplements can purchase a subscription to have the *Tariff*, in either bound or loose-leaf, completely reissued each quarter. The price includes four complete issues of the *Tariff* for a years subscription with the supplements already included.

In addition to the US DOT HazMat regulations, the *Tariff* includes a column in the §172.101 Hazardous Materials Table listing for each chemical the appropriate guide number from the current Emergency Response Guidebook. Also included, are all the guides and important excerpts from the guidebook. The *Tariff* also contains:

- User charts to assist in using the regulations
- UN/NA cross reference
- Federal Hazardous Materials Transportation Act
- Publisher's Note preceding each Part or Subpart summarizing in plain language the contents covered
- Additional codes in col. 1 of §172.101 Hazardous Materials Table identifying those materials that are hazardous substances or marine pollutants
- Subject index
- Restriction on accepting hazardous materials by rail
- Recommended methods for the safe loading and unloading of non-pressure tank cars



\*January 29, April 29, July 29 & October 29, 2006

The CD operates with both Windows® and Machintosh®.

The CD contains the *BOE Tariff*, ERG2004 and Transport Canada's Dangerous Goods regulations as PDF files and operates off the CD without the need to load on the hard drive. The latest version of Acrobat® Reader is included with the CD and loads automatically upon insertion of CD provided the computer is set to automatically read the CD. Otherwise, instructions are provided to load Acrobat® Reader manually.

## BOE TARIFF-6000 SERIES, 2004 EMERGENCY RESPONSE GUIDEBOOK AND TRANSPORT CANADA'S DANGEROUS GOODS REGULATIONS ON CD-ROM

### NOW GET THREE BOOKS FOR THE PRICE OF ONE.

Everything in the printed version of the *BOE Tariff 6000*, 2004 *Emergency Response Guidebook* (ERG) and Transport Canada's Dangerous Goods regulations is now available on one CD-ROM. The user can view on their computer screen all the information exactly as it appears in the *Tariff*. Navigating through the information is easy and simple. The user is able to go immediately to a specific section using book marks, or from each table of contents, with simple point and click operations. One can return to any location visited with simple point and click operations. Extensive hyperlinks are embedded throughout so that with simple point and click operations one can immediately go to a reference located elsewhere in the *Tariff*. For example, in column 7 of the §172.101 Hazardous Materials Table every special provision is linked to the specific information for that provision. In column 8 each section referenced in Part 173 has been linked. The same is true for columns 10A and 10B. The identification number in the UN/NA Cross Reference Table is linked to its entry in the §172.101 Hazardous Materials Table. Throughout the text in the *Tariff* any reference to another section is linked to that section. The same is true for the subject index at the back of the book. The user has full search capabilities which can be used in conjunction with AND, OR and NOT operators. The price includes four CD-ROMs issued quarterly.

A column in the §172.101 HazMat Table contains the appropriate guide number linked to the information in the ERG. The ERG in the CD-ROM can be used independent of the §172.101 HazMat Table.

A full explanation of all the features available in the ERG appears elsewhere in this brochure.

Also included are USDOT interpretations. Each interpretation is linked from the appropriate section in the regulations.



## FIELD GUIDE TO TANK CAR IDENTIFICATION

This quick reference manual is intended to assist the first responder in identifying the various types of tank cars which may be encountered at the scene of a derailment. The guide is divided into pressure and non-pressure tank car sections and contains descriptions, drawings and typical valve arrangements for each. It also features section on initial response, tank car damage assessment and a glossary of railroad terms.



## POLICE AND EMERGENCY RESPONDERS' HAZARDOUS MATERIALS POCKET RESPONSE GUIDE

This handy quick-reference tool is a two-sided, plastic, folding "pocket" guide designed for police officers and emergency responders.

Side one of this guide provides general recommendations for the emergency responder who may be the first person on the scene of a hazardous materials incident. These recommendations are intended to prevent injury to the responder, to provide guidance in assessing the incident, and to assist in gathering information to be relayed to the dispatcher.

Side two provides color examples of the various hazardous materials placards and a short description of the individual hazards associated with the U.S. Department of Transportation hazard classes.



## EMERGENCY HANDLING OF HAZARDOUS MATERIALS IN SURFACE TRANSPORTATION—2005 EDITION

Designed for the first responder, this venerable publication continues to be one of the standards in the field of emergency response. It provides commodity specific descriptions and response information for all the US Department of Transportation listed hazardous materials and many specifically named chemicals transported under a generic DOT description. In addition, materials regulated only by Canada and the International Maritime Organization (IMO) are included. Over 3,600 individual regulated chemicals are covered making it one of the more comprehensive reference books available.

The major US and Canadian railroads use the information to satisfy the US Department of Transportation requirements for providing emergency response information with a hazardous material shipment.

The 2005 Edition is current with both US DOT's and IMO's recently regulated descriptions. To eliminate a responder's confusion, the book identifies those materials where the hazard class is different between Canada, IMO and the US.

Inside you will find:

- The basic properties of the chemicals;
- Recommended methods for dealing with hazardous materials in the early stages of an emergency;
- A listing of emergency environmental mitigation procedures;
- First-aid information;
- Suggested chemical compatible protective equipment for some of the commodities.

New & Updated in 2005 with new DOT, Canadian and IMO regulated hazardous materials



### Get Two For The Price Of One

The CD operates with both Windows® and Machintosh®.

The CD contains the *Emergency Handling of Hazardous Materials in Surface Transportaion* and *2004 Emergency Response Guidebook* (ERG2004) as PDF files and operates off the CD without the need to load on the hard drive. The latest vesion of Acrobat® Reader is included with the CD and loads automatically upon insertion of CD provided the computer is set to automatically read the CD. Otherwise, instructions are provided to load Acrobat® Reader manually.

## EMERGENCY HANDLING OF HAZARDOUS MATERIALS IN SURFACE TRANSPORTATION (2005) AND 2004 EMERGENCY RESPONSE GUIDEBOOK ON CD-ROM

GET TWO BOOKS FOR THE PRICE OF ONE. Everything contained in the printed version of the *Emergency Handling of Hazardous Materials in Surface Transportation* and *2004 Emergency Response Guidebook* (ERG2004) is now available on one CD-ROM disk. The user can view on their computer screen, and when printed, all the information exactly as it appears in *Emergency Handling of Hazardous Materials in Surface Transportation*. Navigating through the information is easy and simple. The user is able to go immediately to a specific section using book marks with simple point and click operations. One can return to any location visited with simple point and click operations. Using point and click operations from the index, the user is able to go to a specific chemical using the UN/NA identification number or the seven digit 48 or 49 Hazmat Code used by the railroads. The user has full search capabilities to search for a specific chemical which can also be used in conjunction with AND, OR and NOT operators.

In the ERG2004, all of the information appears on the computer screen, and when printed, exactly as it does in the one issued by the US Department of Transportation, Transport Canada and Secretariat of Transport and Communications in Mexico. [A full explanation of all the features available in the ERG2004 appears elsewhere in this brochure.](#)

The CD-ROM also includes high quality graphics of all the US Department of Transportation colored placards. They can be pasted in other documents whenever a DOT colored placard is needed, such as customized training programs.



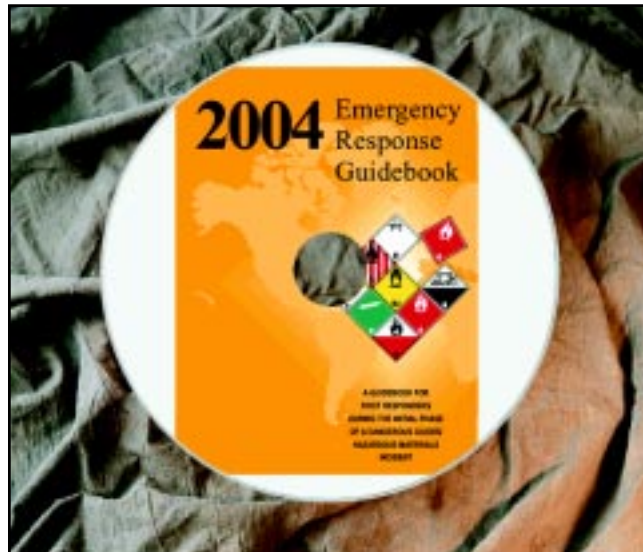
5-3/4" x 8". Spiral bound, with laminated, wear-resistant cover

## NIOSH POCKET GUIDE TO CHEMICAL HAZARDS

The *NIOSH Pocket Guide to Chemical Hazards* is intended as a source of general industrial hygiene information for workers, employers, and occupational health professionals. The Pocket Guide presents key information and data in abbreviated tabular form for 677 chemicals or substance groupings (e.g., manganese compounds, tellurium compounds, inorganic tin compounds, etc.) that are found in the work environment. The industrial hygiene information found in the Pocket Guide should help users recognize and control occupational chemical hazards. The chemicals or substances contained in this revision include all substances for which the National Institute for Occupational Safety and Health (NIOSH) has recommended exposure limits (RELs) and those with permissible exposure limits (PELs) as found in the Occupational Safety and Health Administration (OSHA) General Industry Air Contaminants Standard (29 CFR 1910.1000).

The Pocket Guide includes the following:

- Chemical names, synonyms, trade names, conversion factors, CAS, RTECS, and DOT ID and Guide numbers
- NIOSH Recommended Exposure Limits (NIOSH RELs)
- Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs)
- NIOSH Immediate Dangerous to Life and Health values (NIOSH IDLHs)
- 5-3/4" x 8". Spiral bound, with laminated, wear-resistant cover
- A physical description of the agent with chemical and physical properties
- Measurement methods
- Personal protection and sanitation recommendations
- Respirator recommendations
- Information on health hazards including route, symptoms, first aid and target organ information.



The CD operates with both Windows® and Machintosh®.

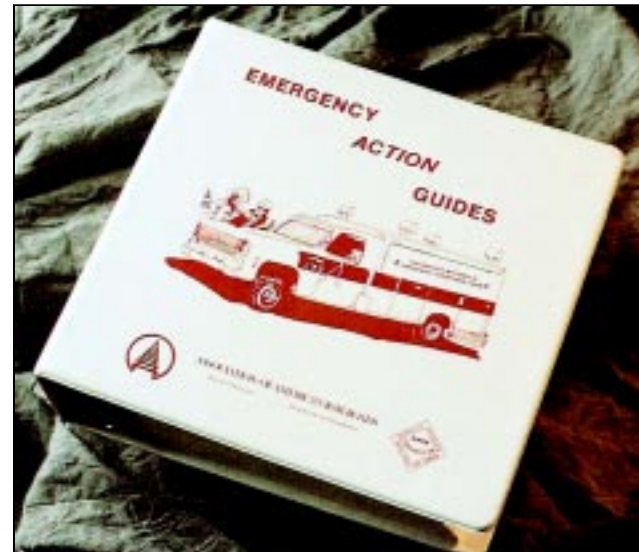
The CD contains the 2004 Emergency Response Guidebook (ERG2004) as PDF files and operates off the CD without the need to load on the hard drive. Acrobat® Reader is included with the CD and loads automatically upon insertion of CD provided the computer is set to automatically read the CD. Otherwise, instructions are provided to load Acrobat® Reader manually.

## 2004 EMERGENCY RESPONSE GUIDEBOOK (ERG2004) ON CD-ROM

The 2004 Emergency Response Guidebook (ERG2004) is now available on CD-ROM. All of the information appears on the computer screen, and when printed, exactly as it does in the ERG2004 issued by the US Department of Transportation, Transport Canada and Secretariat of Transport and Communications in Mexico.

Navigating through the information is easy and simple. The user is able to go immediately to a specific section using book marks with simple point and click operations. One can return to any location visited with simple point and click operations. Extensive hyperlinks are embedded throughout so that with simple point and click operations one can go immediately to a referenced location elsewhere in the ERG2004. For example, in the [Identification Number Index](#) the specific guide for an ID number can be quickly accessed. The same is also the case with the [Index of Chemical Names](#). In addition, if the hazardous material is a poison inhalation hazard (PIH) material, the identification number preceding the guide number in both the [Identification Number Index](#) and [Index of Chemical Names](#) is in red and linked to the information in the [Table of Initial Isolation and Protective Action Distances](#). If the material is water reactive, the identification number in the [Table of Initial Isolation and Protective Action Distances](#) is in red and linked to the entry in the [List of Dangerous Water-Reactive Materials](#). The user has full search capabilities which can be used in conjunction with AND, OR and NOT operators.

The CD-ROM also includes high quality graphics of all the US Department of Transportation colored placards. They can be pasted in other documents whenever a DOT colored placard is needed, such as customized training programs.

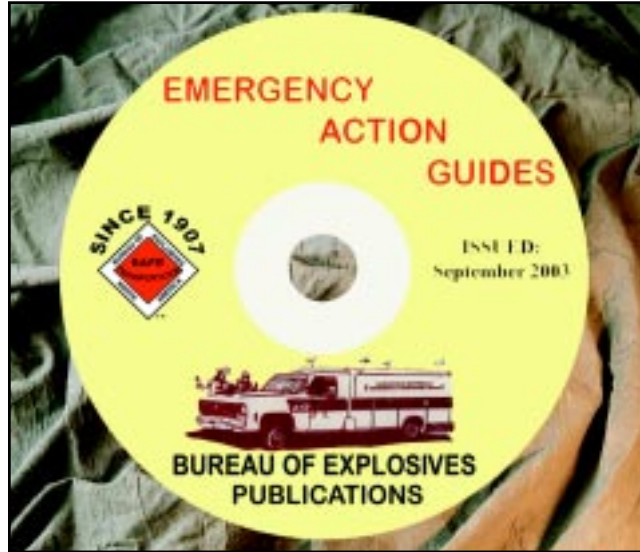


Contains tab dividers for quick reference!  
(2003 Edition available only in paper. No supplements were issued in 2001 or 2002)

## EMERGENCY ACTION GUIDES 2003 EDITION

Designed for the emergency responder, this publication provides detailed chemical identification and emergency responses for more than 264 chemicals that are shipped primarily in bulk in North America by rail or highway. The information on each chemical is self-contained on its own separate insert in a 3-ring binder format for easy removal and use at the scene. Each contains detailed information which includes the applicable DOT colored placard and National Fire Protection Diamond, chemical-physical properties, protective equipment, emergency first-aid and various spill mitigation techniques and consequences. This information can be invaluable to the emergency responder who is forced to make response decisions which may affect persons, property, and the environment.

In contrast to the *Emergency Handling of Hazardous Materials in Surface Transportation*, the EAGs are more technical in nature and are therefore more valuable for use by Emergency Response Technicians.



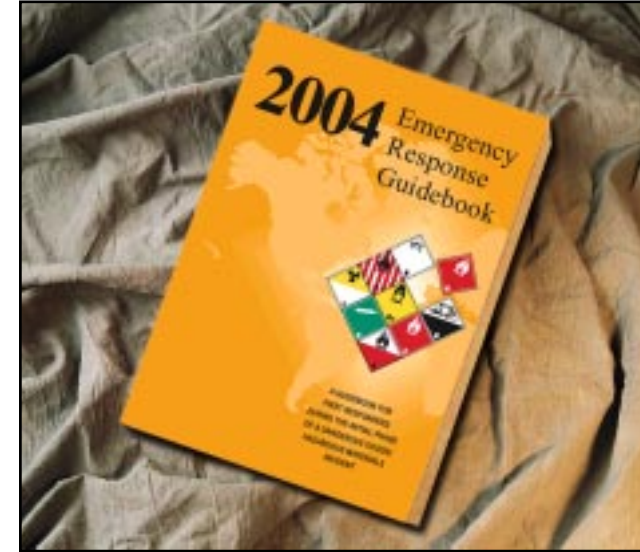
Latest version of Acrobat ® Reader is included with the CD and loads automatically upon insertion of CD provided the computer is set to automatically read the CD. Otherwise, instructions are provided to load Acrobat ® Reader manually.

## EMERGENCY ACTION GUIDES ON CD-ROM

The 2003 Edition of Emergency Action Guides are available on CD-ROM. The CD contains all the Guides as PDF files and operates off the CD without the need to load on the hard drive. The CD operates with both Windows® and Machintosh®. Acrobat® Reader is included with the CD and loads automatically upon insertion of CD provided the computer is set to automatically read the CD. Otherwise, instructions are provided to load Acrobat® Reader manually.

Get three for the price of one. The CD also contains the *Emergency Handling of Hazardous Materials in Surface Transportation* (Current Edition) and the 2004 *Emergency Response Guidebook* (ERG).

The CD-ROM also includes high quality graphics of all the US Department of Transportation colored placards. They can be pasted in other documents whenever a DOT colored placard is needed, such as customized training programs.



Comes in 5-1/2" x 7-1/2" & 4" x 6" sizes

## 2004 EMERGENCY RESPONSE GUIDEBOOK (ERG2004)

The *2004 Emergency Response Guidebook* (ERG2004) is published by the US Department of Transportation and was developed jointly by Transport Canada (TC), the U.S. Department of Transportation (DOT) and the Secretariat of Transport and Communications of Mexico (SCT) for use by fire fighters, police, and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving dangerous goods. It is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material(s) involved in the incident, and protecting themselves and the general public during the initial response phase of the incident. For the purposes of the guidebook, the "initial response phase" is that period following arrival at the scene of an incident during which the presence and/or identification of dangerous goods is confirmed, protective actions and area securement are initiated, and assistance of qualified personnel is requested. It is not intended to provide information on the physical or chemical properties of dangerous goods. The *Emergency Handling of Hazardous Materials in Surface Transportation* provides information on the physical or chemical properties of dangerous goods.

All hazardous materials shipments must be accompanied by emergency response information (reference §172.600). The ERG2004 can fulfill that requirement.

## **TO ENSURE PROPER PROCESSING AND HANDLING OF YOUR ORDER:**

- Please use the order form on the reverse.
- A Purchase Order can be used only for amounts over \$100.00 unless there is a record of previous purchases and good credit standing on file. The PO must contain a number, company name and address, and the name of the responsible party. **A copy of the Purchase Order must accompany the order.**
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- **FAX orders to:** 412/741-0609.
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- Prices are subject to change without notice.
- **All Sales are Final.** No returns will be accepted.
- Make checks payable to "TTCI" in US funds and, except for Canada, drawn on a US bank.
- Government is eligible for member discount except for the BOE Tariff 6000 series. Government includes local, state and federal facilities. Fire departments and emergency service organizations are also considered government.

## **SHIPPING:**

- Please ensure that the address provided under "SHIP to" is the UPS address. Also, include your mailing address if different than the UPS address for use in sending information by first class mail on the availability of new issues of our publications.
- Allow 2 weeks for delivery.
- See order form for shipping costs.

## 2006 BOE PUBLICATIONS ORDER FORM

Product CODE	Member Price	Non-Member Price	Qty.	Total
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<b>CD-ROM version of BOE-6000</b> Supplemented each Quarter and contains current Emergency Response Guidebook and Transport Canada's Dangerous Goods regulations.	BE118			
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24 or more copies (Includes shipping to same US address)		\$82.00		\$104.00
<b>Emergency Action Guides</b> Completely Assembled Book 2003 (Includes all Supplements) & 2 Binders Paper				
Supplements (Prior to 1997 please call for cost)	BE220	\$205.00		\$240.00
Paper, 2003	BE228	\$60.00		\$70.00
Paper, 2000	BE226	\$60.00		\$70.00
Paper, 1997	BE224	\$60.00		\$70.00
<b>Binder for Emergency Action Guides</b>	BE200	\$7.00		\$7.00
<b>Emergency Action Guides on CD-ROM</b> contains the Emergency Handling of Hazardous Materials in Surface Transportation (current Edition) and the 2004 Emergency Response Guidebook (ERG-2004). (Includes shipping within US)	BE600	\$205.00		\$240.00
<b>2003 Upgrade for current owners of 2000 EAG on CD-ROM.</b> (Includes shipping within US)	BE601	\$60.00		\$70.00
<b>Emergency Handling of Hazardous Materials in Surface Transportation, 2005</b>	BE306	\$60.00		\$71.00
<b>CD-ROM of Emergency Handling of Hazardous Materials in Surface Transportation, 2005</b> contains 2004 Emergency Response Guidebook (Includes shipping within US)	BE353	\$80.00		\$100.00
<b>NIOSH Guide To Chemical Hazards</b>				
<b>2004 Emergency Response Guidebook</b> 5-1/2" x 7-1/2" Edition	BE800	\$14.95		\$14.95
4" x 6" Pocket edition	BE700	\$3.75		\$3.75
	BE701	\$2.50		\$2.50
<b>2004 Emergency Response Guidebook on CD-ROM</b> (Includes shipping within US)	BE702	\$30.00		\$30.00
<b>Emergency Responders' HazMat Pocket Response Guide</b> (Sold in packs of 10 only)	BE400	\$30.00		\$30.00
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<sup>1</sup> Discounts of purchases in excess of 10 are available upon request by calling 41.2/741-1096

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<sup>3</sup> Available when released by DOT

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