

UNIVERSITY OF MISSOURI-COLUMBIA
PRESENTS

Generator Hazardous Waste Management “An Overview”

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WHY ARE WE HERE?

- MISSION STATEMENT
 - To improve your understanding of Hazardous Waste Management
 - Goals
 - Introduction to the system
 - Caveats
 - Only 4 Hours

WHAT'S THE PLAN?

- AGENDA
 - Administrivia
 - Laws and Regulations
 - Regulations Applicable to Generators
 - Federal
 - EPA - Hazardous Wastes
 - DOT - Hazardous Materials
 - States
 - MDNR - Missouri
 - Wrap-up

ADMINISTRIVIA

- IMPORTANT STUFF
 - Fire Exits
 - Breaks
 - Restrooms
- OTHER STUFF
 - The handout may contain slides that will be not be displayed and may not contain all of the slides that will be displayed
 - All questions are to be asked when you have them!

LAWS AND REGULATIONS

Laws are
for Lawyers.

Regulations are
for the rest of us!

FEDERAL LAWS

- LEGISLATION
 - Slip Law
 - United States Statues at Large
 - United States Code

FEDERAL LAWS

- THAT POTENTIALLY IMPACT HAZARDOUS WASTE GENERATORS
 - Occupational Safety (OSHA)
 - Occupational Safety and Health Act
 - Hazardous Waste (EPA)
 - Resource Conservation and Recovery Act
 - Comprehensive Environmental Response, Compensation, and Liability Act
 - Hazardous Materials (DOT)
 - Hazardous Materials Transportation Act

{THE SHORT LIST}

FEDERAL REGULATIONS

- LEGISLATION
 - Slip Law
 - United States Statues at Large
 - United States Code
- REGULATION
 - Code of Federal Regulations
 - Federal Register

FEDERAL REGULATIONS

- THAT POTENTIALLY IMPACT HAZARDOUS WASTE GENERATORS
 - Title 29
 - OSHA
 - Part 1910
 - Title 40
 - EPA
 - Parts 260 - 279
 - Title 49
 - DOT
 - Parts 171 - 180

VERY IMPORTANT
WATCH FOR
KEY TERM
DEFINITIONS

Available at
www.gpo.gov

{THE SHORT LIST}

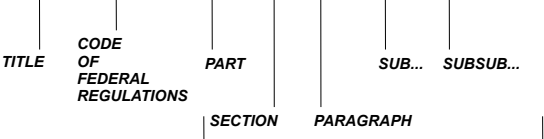
FEDERAL REGULATIONS

- CHANGES
 - Amendments to Laws
 - Presidential and Secretarial Orders
 - Agency Initiative
- FEDERAL REGISTER
 - Presidential Documents
 - Rules and Regulations
 - Proposed Rules
 - Notices
 - Corrections

Available at
www.gpo.gov

REGULATORY CITATIONS

40 CFR 261.1 (b) (2) (ii)...



40 CFR 261 SUBPART A

SUBPART DESIGNATION

VOLUME NUMBER **73** FR **18970** PAGE NUMBER
FEDERAL REGISTER

EPA HAZARDOUS WASTE REGULATIONS

PROTECTION OF THE ENVIRONMENT

- TITLE 40
 - CHAPTER I
 - ENVIRONMENTAL PROTECTION AGENCY
 - SUBCHAPTER I
 - SOLID WASTES
 - PARTS 260 THROUGH 279
 - The Main Frame: 260-265
 - The Additions: 266-279

REMEMBER TO CHECK FOR STATE-SPECIFIC REGULATIONS

40 CFR PART 260

- HAZARDOUS WASTE MANAGEMENT SYSTEM: GENERAL
 - SUBPART
 - A - General
 - B - Definitions
 - C - Rulemaking Petitions
 - Appendix

40 CFR PART 261

- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE
 - SUBPART
 - A - General
 - B - Criteria for Identifying the Characteristics of Hazardous Waste and for Listing Hazardous Waste
 - C - Characteristics of Hazardous Waste
 - D - Lists of Hazardous Wastes
 - E - Exclusions/Exemptions [NEW]
 - Appendices

40 CFR PART 262

- STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE
 - SUBPART
 - A - General
 - B - The Manifest
 - C - Pre-transport Requirements
 - D - Recordkeeping and Reporting
 - E thru J - *Exports, Imports, Farmers, XL Projects*
 - Appendix

40 CFR PART 263

- STANDARDS APPLICABLE TO TRANSPORTERS OF HAZARDOUS WASTE
 - SUBPART
 - A - General
 - B - Compliance with the Manifest System and Recordkeeping
 - C - Hazardous Waste Discharges

40 CFR PARTS 264 & 265

- STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES
 - Nothing for Generators
- INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES
 - Some provisions *DO* apply to Generators
{more later}

40 CFR PARTS 266 & 267

- STANDARDS FOR THE MANAGEMENT OF SPECIFIC HAZARDOUS WASTES AND SPECIFIC TYPES OF HAZARDOUS WASTE MANAGEMENT FACILITIES
 - Some provisions *MAY* apply to Generators
- STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE FACILITIES OPERATING UNDER A STANDARDIZED PERMIT
 - *ONLY* applies to Generators that have one

40 CFR PART 268

- LAND DISPOSAL RESTRICTIONS
 - SUBPART
 - A - General
 - B - Schedule for Land Disposal Prohibition and Establishment of Treatment Standards
 - C - Prohibitions on Land Disposal
 - D - Treatment Standards
 - E - Prohibitions on Storage
 - Appendices

40 CFR PARTS 270, 271, & 272

- EPA ADMINISTERED PERMIT PROGRAMS: THE HAZARDOUS WASTE PERMIT PROGRAM
 - *ONLY* applies to Generators that have one
- REQUIREMENTS FOR AUTHORIZATION OF STATE HAZARDOUS WASTE PROGRAMS
- APPROVED STATE HAZARDOUS WASTE MANAGEMENT PROGRAMS
 - Nothing in either one for Generators

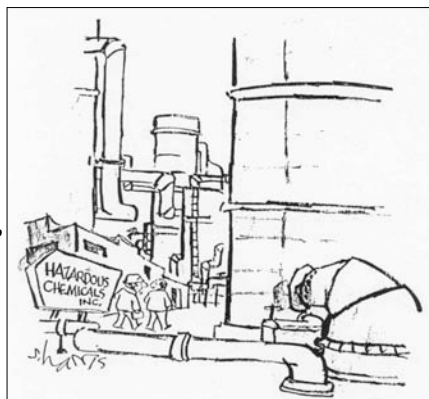
40 CFR PARTS 273 & 279

- STANDARDS FOR UNIVERSAL WASTE MANAGEMENT
 - *ONLY* applies to Generators who choose to use the alternate compliance provisions
- STANDARDS FOR THE MANAGEMENT OF USED OIL
 - *ONLY* applies to Generators with used oil

GENERATOR HAZARDOUS WASTE MANAGEMENT

WHAT IS HAZARDOUS WASTE?

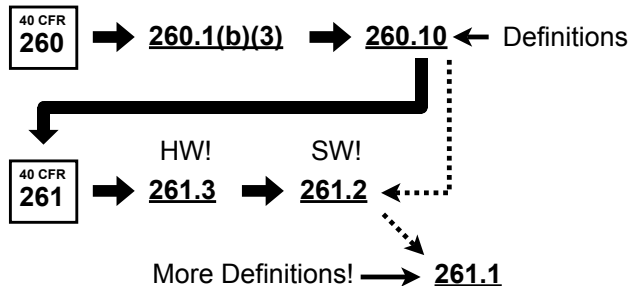
“The funny thing is, our wastes are perfectly harmless.”



GENERATOR HAZARDOUS WASTE MANAGEMENT

WHAT IS HAZARDOUS WASTE?

- HAZARDOUS WASTE
 - Statutory
 - Regulatory



IDENTIFICATION TASKS

- INFORMATION GATHERING
 - Personal Knowledge
 - Analytical Testing
- HAZARDOUS WASTE DETERMINATION
 - Is it hazardous waste?
 - 40 CFR 261.3 - Definition
 - 40 CFR 261.4 - Exclusions
 - Is it listed by name?
 - 40 CFR 261 Subpart D
- Does it exhibit a hazardous waste characteristic?
 - 40 CFR 261 Subpart C
- RCRA ID ASSIGNMENT
 - K, F, P, & U Codes
- COMPATIBILITY JUDGMENT
 - Consolidation
 - Accumulation

PRINCIPAL STEPS IN HAZARDOUS WASTE MANAGEMENT

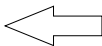
- EVALUATION / IDENTIFICATION
- MINIMIZATION / REDUCTION
- SEGREGATION / COLLECTION
- CONTAINERIZATION / STORAGE
- SHIPMENT / DISPOSAL

GENERATOR CATEGORIES

- CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
 - CESQG
 - Defined in 40 CFR 261.5(a)
- SMALL QUANTITY GENERATOR
 - SQG
 - Defined in 40 CFR 260.10
- LARGE QUANTITY GENERATOR
 - LQG
 - Undefined default category

GENERATION vs ACCUMULATION

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31			10 Kg	



GENERATION IS BASED ON THE QUANTITY OF WASTE MADE EACH CALENDAR MONTH

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31			10 Kg	

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31			20 Kg	

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30				30 Kg	

ACCUMULATION IS THE RUNNING TOTAL OF EACH MONTH'S GENERATION

GENERATION RATES

- GENERATOR-DEPENDENT
 - Non-acute Hazardous Waste {in general}
 - CESQG
 - less than 100 kg/month
 - SQG
 - 100 kg/month or more but less than 1000 kg/month
 - LQG
 - 1000 kg/month or more
 - Acute Hazardous Waste|Spill {in general}
 - CESQG || SQG {depends on non-acute}
 - less than 1 kg/month || less than 100 kg/month
 - LQG
 - 1 kg/month or more || 100 kg/month or more

GENERATOR REQUIREMENTS

- HAZARDOUS WASTE DETERMINATION
 - 40 CFR 262.11
- ID NUMBERS
 - 40 CFR 262.12
- ACCUMULATION LIMITS
 - 40 CFR 261.5(e), (f), (g); 262.34
- RECORDKEEPING
 - 40 CFR 262 Subpart D
- MANIFESTS
 - 40 CFR 262 Subpart B & the Appendix

ACCUMULATION LIMITS

- GENERATOR-DEPENDENT
 - Quantity Limits *{in general}*
 - CESQG - 1,000 Kg
 - SQG - 6,000 Kg
 - LQG - Unlimited
 - Time Limits *{in general}*
 - CESQG - Unlimited
 - SQG - 180 Days
 - LQG - 90 Days
 - Special Provisions *{in general}*
 - Satellite *{SQG & LQG}*
 - Self-Implementing 270-Day Extension *{SQG}*
 - Agency-Granted 30-Day Extension *{SQG & LQG}*

RECORDS AND REPORTS

- GENERATOR-DEPENDENT
 - Records
 - 40 CFR 262.40 - Recordkeeping
 - SQG & LQG
 - Copies of manifests
 - Copies of reports
 - Hazardous waste determination data
 - Reports
 - 40 CFR 262.41 - Biennial report
 - LQG only *{a.k.a. Hazardous Waste Report}*
 - 40 CFR 262.42 - Exception reports
 - SQG & LQG
 - 40 CFR 262.43 - Additional reports
 - SQG & LQG

MANAGEMENT SUMMARY

BASED ON 40 CFR 262.34

- SQG
 - 40 CFR 265 Subpart I
 - 40 CFR 265 Subpart J
 - 40 CFR 265 Subpart C
 - 40 CFR 268
 - Special Provisions
- LQG
 - 40 CFR 265 Subpart I
 - 40 CFR 265 Subpart J
 - 40 CFR 265 Subpart C
 - 40 CFR 268
 - 40 CFR 265 Subpart D
 - 40 CFR 265 Subpart W
 - 40 CFR 265 Subpart DD
 - 40 CFR 265.111 & 265.114
 - 40 CFR 265.16
 - 40 CFR 265 Subpart AA
 - 40 CFR 265 Subpart BB
 - 40 CFR 265 Subpart CC

MANAGEMENT PROCEDURES

- IN 40 CFR 265
 - Subpart I - *Container management*
 - Subpart J - *Tank management*
 - Subpart C - *Preparing for/preventing emergencies*
 - Subpart D - *Contingency planning/emerg. resp.*
 - Subpart W - *Drip pad management*
 - Subpart DD - *Containment building management*
 - Sections 111 & 114 - *Closure procedures*
 - Section 16 - *Hazardous waste worker training*
 - Subpart AA - *Process vent air standards*
 - Subpart BB - *Equipment leak air standards*
 - Subpart CC - *Surface impoundment, tank, and container air standards*

DOT HAZARDOUS MATERIALS REGULATIONS

TRANSPORTATION

- TITLE 49
 - SUBTITLE B
 - OTHER REGULATIONS RELATING TO TRANSPORTATION
 - CHAPTER I
 - Pipeline and Hazardous Materials Safety Administration, Department of Transportation
 - SUBCHAPTER A - Hazardous Materials and Oil Transportation
 - SUBCHAPTER B - Oil Transportation
 - SUBCHAPTER C - Hazardous Materials Regulations
 - SUBCHAPTER D - Pipeline Safety

SUBCHAPTER A

- HAZARDOUS MATERIALS AND OIL TRANSPORTATION
 - 49 CFR PART
 - 105 - Hazardous Materials Program Definitions and General Procedures
 - 106 - Rulemaking Procedures
 - 107 - Hazardous Materials Program Procedures
 - 110 - Hazardous Materials Public Sector Training and Planning Grants

SUBCHAPTER B

- OIL TRANSPORTATION
 - 49 CFR PART
 - 130 - Oil Spill Prevention And Response Plans {spcc dovetail}

SUBCHAPTER C

- HAZARDOUS MATERIALS REGULATIONS
 - 49 CFR PART
 - 171 - General Information, Regulations, and Definitions
 - 172 - Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements

SUBCHAPTER C

- HAZARDOUS MATERIALS REGULATIONS
 - 49 CFR PART
 - 173 - Shippers - General Requirements for Shipments and Packagings
 - 174 - Carriage by Rail
 - 175 - Carriage by Aircraft
 - 176 - Carriage by Vessel
 - 177 - Carriage by Public Highway
{many generators ship by truck}

SUBCHAPTER C

- HAZARDOUS MATERIALS REGULATIONS
 - 49 CFR PART
 - 178 - Specifications for Packagings
{such as drums}
 - 179 - Specifications for Tank Cars
 - 180 - Continuing Qualification and Maintenance of Packagings

SUBCHAPTER D

- PIPELINE SAFETY
 - 49 CFR PART
 - 190 - Pipeline Safety Programs and Rulemaking Procedures
 - 191 thru 193 - *Transportation of Gasses*
 - 194 - *Response Plans*
 - 195 - *Transportation of Hazardous Liquids*
 - 198 - Regulations for Grants to Aid State Pipeline Safety Programs
 - 199 - Drug and Alcohol Testing

GENERATOR HAZARDOUS MATERIALS MANAGEMENT

49 CFR PART 107

- HAZARDOUS MATERIALS PROGRAM PROCEDURES
 - SUBPART
 - A - Definitions
 - B - Special Permits {*alternate compliance*}
 - C - Preemption {*of some state regs & local ords*}
 - D - Enforcement {*table of penalties*}
 - E & F - *Approval & Registration procedures*
 - G - Registration of Persons Who Offer or Transport Hazardous Materials {*some generators*}
 - H & I - *More Approval procedures*

GENERATOR HAZARDOUS WASTE MANAGEMENT

49 CFR PART 171 SUBPART A

- APPLICABILITY, GENERAL REQUIREMENTS, AND NORTH AMERICAN SHIPMENTS
 - 49 CFR
 - 171.1 - Applicability of Hazardous Materials Regulations (HMR) to Persons and Functions
 - 171.2 - General Requirements
 - 171.3 - Hazardous Waste
 - 171.4 - Marine Pollutants
 - 171.6 - Control Numbers under the Paperwork Reduction Act
 - 171.7 - Reference Material

49 CFR PART 171 SUBPART A

- APPLICABILITY, GENERAL REQUIREMENTS, AND NORTH AMERICAN SHIPMENTS
 - 49 CFR
 - 171.8 - Definitions and Abbreviations
 - 171.9 - Rules of Construction
{*how to read DOT regs*}
 - 171.10 - Units of Measure
 - 171.14 - Transitional Provisions for Implementing Certain Requirements

49 CFR PART 171 SUBPART B

- INCIDENT REPORTING, NOTIFICATION, BOE APPROVALS AND AUTHORIZATION
 - 49 CFR
 - 171.15 - Immediate Notice of Certain Hazardous Materials Incidents
 - 171.16 - Detailed Hazardous Materials Incident Reports
 - 171.19 - *BOE Approvals ...*
 - 171.20 - Submission of Examination Reports
 - 171.21 - *Investigations ...*

49 CFR PART 171 SUBPART C

- AUTHORIZATION AND REQUIREMENTS FOR THE USE OF INTERNATIONAL TRANSPORT STANDARDS AND REGULATIONS
 - 49 CFR
 - 171.22 - *Authorization for using international regulations instead of the HMRs*
 - 171.23 thru 171.26 - *Requirements when using ICAO, IMDG, TDG, or IAEA regulations*

{Only impacts Generators who export wastes}

49 CFR PART 172

- HAZARDOUS MATERIALS TABLE, SPECIAL PROVISIONS, HAZARDOUS MATERIALS COMMUNICATIONS, EMERGENCY RESPONSE INFORMATION, AND TRAINING REQUIREMENTS
 - SUBPART
 - A - General
 - B - Table of Hazardous Materials and Special Provisions

49 CFR PART 172

- HAZARDOUS MATERIALS TABLE ...
 - SUBPART
 - C - Shipping Papers {such as manifests}
 - D - Marking {your drums}
 - E - Labeling {your drums}
 - F - Placarding {to give to the transporter}
 - G - Emergency Response Information {ERG}
 - H - Training
 - I - Security Plans
 - Appendices {hazardous substances}

49 CFR PART 172 SUBPART H

- TRAINING
 - What is Required?
 - Every hazmat employee MUST receive:
 - General Awareness/Familiarization Training
 - Function-specific Training
 - Safety Training
 - Security Awareness Training
 - If you have a DOT Security Plan, then all involved hazmat employees MUST receive:
 - In-Depth Security Training
 - Testing
 - Recordkeeping and Certification
 - Periodic repeat of all training
 - At least every 2 yrs international, 3 yrs domestic

49 CFR PART 172 SUBPART I

- SECURITY PLANS
 - What is Required?
 - If you SHIP:
 - Selected hazmats such as more than 1 L per package of a poison that is a zone A inhalation hazard {there are a total of six shipping combination triggers}
 - Any quantity of hazardous material that requires placarding
 - Then you MUST develop a Security Plan based on a risk assessment that addresses:
 - Personnel Security
 - Unauthorized Access
 - En Route Security
 - Secure documents, updated as necessary

49 CFR PART 173

- SHIPPERS - GENERAL REQUIREMENTS FOR SHIPMENTS AND PACKAGINGS
 - SUBPART
 - A - General
 - B - Preparation of Hazardous Materials for Transportation
 - C - Definitions, Classification and Packaging for Class I [Explosives]

49 CFR PART 173

- SHIPPERS - GENERAL ...
 - SUBPART
 - D - Definitions, Classification, Packing Group Assignments and Exceptions for Hazardous Materials Other Than Class 1 and Class 7
 - E - Non-Bulk Packaging for Hazardous Materials Other Than Class 1 and Class 7
 - F - Bulk Packaging for Hazardous Materials Other Than Class 1 and Class 7

HAZARDOUS MATERIALS OTHER THAN CLASS 1 & CLASS 7 (& CLASS 2)

- Class 3 - Flammable Liquids
- Class 4 - Flammable Solids
- Class 5 - Oxidizers and Organic Peroxides
- Class 6 - Toxic and Infectious Substances
- Class 8 - Corrosive Materials
- Class 9 - Miscellaneous Hazardous Materials

49 CFR PART 173

- SHIPPERS - GENERAL ...
 - SUBPART
 - G - Gasses; Preparation and Packaging [Class 2]
 - H - [reserved]
 - I - Class 7 (Radioactive) Materials
 - Appendices

SHIPPING HAZARDOUS WASTE

- THE SHIPPING PROCESS
 - Pre-Shipment Preparations
 - Shipment Preparations
 - Shipping Day
 - Post-Shipment Concerns

SHIPPING HAZARDOUS WASTE

- PRE-SHIPMENT PREPARATIONS
 - Identification
 - Hazardous waste based on EPA (and/or state)
 - Hazardous material based on DOT
 - Accumulation
 - Segregation, mixing, packaging and repackaging
 - Compatibility issues
 - Inventory Control
 - Records for EPA (and/or state)
 - Information for DOT
 - TSDf and Transporter Services
 - Choosing your business partners
 - Permits, insurance, profiles, and contracts

SHIPPING HAZARDOUS WASTE

- SHIPMENT PREPARATIONS
 - Classification
 - Hazardous Substance Determination
 - 49 CFR 171.8 {hazardous substance definition}
 - 49 CFR 172.101(c)(8) {hazardous substance provision}
 - Appendix A to 172.101 {hazardous substance tables}
 - Hazardous Material Determination
 - 49 CFR 172.101 {provisions and table}
 - 49 CFR 173.2a {section 2a is between sections 2 & 3}
 - Hazardous Waste Special Provisions
 - 49 CFR 172.101(c)(11) {using personal knowledge}
 - 49 CFR 172.101(c)(9) {adding the word "waste"}
 - 49 CFR 172.101(c)(4) {word sequencing}
 - Shipping Name, Hazard Class(s)/Division(s), and Packing Group {result}

SHIPPING HAZARDOUS WASTE

- SHIPMENT PREPARATIONS
 - Packaging Selection
 - Performance-Oriented Packagings
 - 49 CFR 178 Subpart L {non-bulk such as drums}
 - Exceptions for Shipment of Waste Materials
 - 49 CFR 173.12(b) {lab packs}
 - Selection based on Columns 7 and 8 for the Shipping Name
 - Manifest Preparation {a.k.a. the shipping paper}
 - 40 CFR 262 Appendix
 - Uniform Hazardous Waste Manifest
 - Continuation Sheet
 - 49 CFR Subpart C {172.205 addresses the manifest}

SHIPPING HAZARDOUS WASTE

- SHIPMENT PREPARATIONS
 - LDR Document Preparation
 - 40 CFR 268.7(a)
 - Notifications, Certifications, and Exemptions
 - Support Document Preparation
 - Profile Sheets, Cross-Reference Sheets, Lading Sheets, & Packing Lists {as needed}
 - DOT Emergency Response Documents
 - 49 CFR 172 Subpart G
 - Preliminary Placarding Assessment
 - 49 CFR 172 Subpart F

SHIPPING HAZARDOUS WASTE

- SHIPMENT PREPARATIONS
 - Package Completion
 - Closures
 - Manufacturer's Instructions
 - 49 CFR 173 Subpart B
 - Marks
 - DOT
 - 49 CFR 172 Subpart D
 - Non-Bulk Packagings
 - Bulk Packagings
 - 49 CFR 173 Subpart A
 - Modal Specific (49 CFR 174-177)
 - EPA
 - 40 CFR 262 Subpart B
 - Hazardous Waste Label

SHIPPING HAZARDOUS WASTE

- SHIPMENT PREPARATIONS
 - Package Completion
 - Labels
 - 49 CFR 172 Subpart E
 - Final Placarding Assessment
 - 49 CFR 172 Subpart F
 - Segregation and Loading Plan
 - 49 CFR 177.848
 - Segregation Chart
 - Additional Restrictions

SHIPPING HAZARDOUS WASTE

- SHIPMENT PREPARATIONS
 - Call for a Pick Up
 - Type of Truck
 - Bulk or Non-Bulk
 - Big Enough
 - Lift Gate Equipped
 - Lading
 - Modal Segregation
 - Special Permits to Cover Special Cases
 - Compatible with the Other Ladings to be Picked Up at Other Locations

SHIPPING HAZARDOUS WASTE

- SHIPPING DAY
 - Inspect Load
 - Load Truck
 - Complete Manifest
 - Tender Placards
 - Observe Departure

SHIPPING HAZARDOUS WASTE

- POST-SHIPMENT CONCERNS
 - Emergencies
 - Always consider your liability
 - Unloading at the TSDF
 - Quality Control
 - Significant Discrepancies
 - TSDF Procedures
 - 40 CFR 264.72/265.72
 - Rejections and Returns
 - Generator Procedures
 - 40 CFR 262.34(m)
 - Rejections and Returns
 - Manifest Route
 - 40 CFR 262.42 Exception Reporting

STATE HAZARDOUS WASTE PROGRAMS

THE EPA AND THE STATES

- HAZARDOUS WASTE PROGRAMS
 - The Federal hazardous waste program allows States to implement their own hazardous waste programs (i.e., to become Authorized) in lieu of the the Federal program
 - The authorization regulations are found in 40 CFR Part 271 and 40 CFR Part 272 tracks the status of the States with authorization

THE EPA AND THE STATES

- HAZARDOUS WASTE PROGRAMS
 - Some Federal hazardous waste regulations apply to Generator activities in all States, *PERIOD*
 - Some Federal hazardous waste regulations apply to Generator activities in an Authorized State *ONLY* after the State adopts that particular regulation

THE EPA AND THE STATES

- HAZARDOUS WASTE PROGRAMS
 - Within reason, States can base their programs on any vintage of 40 CFR 260 through 279 by incorporation
 - To some degree, States can choose which parts of 260 through 279 to incorporate
 - In addition to making selected revisions, States periodically update their programs by incorporating newer versions of 260 through 279

FOR EXAMPLE ...

- MISSOURI
 - Laws
 - Missouri Revised Statutes
 - Title XVI - Conservation, Resources and Development
 - Chapter 260 - Environmental Control
 - Sections 260.350 to 260.430 - Missouri Hazardous Waste Management Law
 - Title XL - Additional Executive Departments
 - Chapter 640 - Department of Natural Resources
 - Regulations
 - Code of State Regulations (CSR)
 - Title 10 - Department of Natural Resources
 - Division 25 - Hazardous Waste Management Commission
 - Chapter 1 through Chapter 17
 - Missouri Register

FOR EXAMPLE ...

- MDNR
 - Missouri Hazardous Waste Regulations
 - 10 CSR 25-3.260 {based on 2004 40 CFR 260}
 - Definitions, Modifications to Incorporations and Confidential Business Information
 - 10 CSR 25-4.261 {based on 2004 40 CFR 261}
 - Methods for Identifying Hazardous Waste
 - 10 CSR 25-5.262 {based on 2004 40 CFR 262}
 - Standards Applicable to Generators of Hazardous Waste
 - 10 CSR 25-7.265 {based on 2004 40 CFR 265}
 - Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities
 - 10 CSR 25-7.268 {based on 2004 40 CFR 268}
 - Land Disposal Restrictions

FOR EXAMPLE ...

- MDNR
 - <http://www.dnr.mo.gov>
 - Divisions and Programs
 - [http:// www.dnr.mo.gov/divisions.htm](http://www.dnr.mo.gov/divisions.htm)
 - Division of Environmental Quality
 - Hazardous Waste Program
 - [http:// www.dnr.mo.gov/env/hwp/index.html](http://www.dnr.mo.gov/env/hwp/index.html)
 - Forms, Applications, Permits and Operations Manuals
 - [http:// www.dnr.mo.gov/forms/index.html](http://www.dnr.mo.gov/forms/index.html)
 - Online Services
 - [http:// www.dnr.mo.gov/eservices.htm](http://www.dnr.mo.gov/eservices.htm)
 - Publications, Manuals, Videos and Other Media
 - [http:// www.dnr.mo.gov/pubs/index.html](http://www.dnr.mo.gov/pubs/index.html)

THAT'S A WRAP!

**A little knowledge
can be dangerous!**

WHAT DO I DO NOW?

- GET TRAINING
- Just search the internet, here is a sample
 - Commercial Training Providers
 - Archer Institute of Environmental Training,
 - <http://www.aarcherinstitute.com/index.php>
 - Environmental Resource Center
 - <http://www.ercweb.com/home/>
 - Lion Technology
 - <http://www.lion.com/default.htm>
 - Non-Profit Training Providers
 - Dangerous Goods Advisory Council
 - <https://www.dgac.org/index.shtml>
 - MU Hazardous Waste Management Institutes
 - http://muconf.missouri.edu/hazardous_waste/index.html

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THANK YOU
