



EHS Compliance Update

Fall 2007

EHS Management Strategies, LLC

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Does EHS Performance Affect Shareholder Value?

According to Cap Gemini Ernst & Young somewhere between 50 and 90 percent of a company's market value is created by "intangible assets" such as environmental, health, and safety (EHS) performance. A 2004 report from the Global Environmental Management Initiative (GEMI), member-based organization of 40 major companies that promotes EHS and corporate social responsibility (CSR) excellence, cites this statistic in linking strong EHS performance with shareowner value.

The report, entitled *Clear Advantage: Building Shareholder Value*, also cites a "substantial body of evidence" from the academic, nongovernmental organization (NGO), and socially responsible investment (SRI) communities establishing this correlation. The report then advises how best to design, implement, evaluate, and disclose EHS initiatives that can add value.

The second section of the report, "Making the Case," presents evidence linking EHS and shareowner value (the first section of the report is its executive summary). For example, the report reprints a chart prepared by Innovest Strategic Value Advisors displaying how stocks of pharmaceutical companies with superior EHS financially outperformed EHS laggards by 17 percent over a one-year period starting in May 2001.

"There is considerable evidence that EHS contributes to shareholder value in a variety of ways--not only through 'tangible' contributions such as risk reduction and profitabil-

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Software Solutions



EHS -MS can help you pick the right tools for your organization

Hazardous Material Shipping Papers Must Include the Type and Quantity of Packages [49 CFR 172.202(a)(7)]

Effective Oct. 1, 2007, the Department of Transportation now requires the number and type of packages containing hazardous materials to be included on shipping papers. The type and quantity of packages must include a description of the package (for example, 4 boxes, 8 drums).

The UN specification number for the package (e.g., 4G or 1A1) is optional and may be added to the package description, but it may not take the place of the above information. Abbreviations may be used for different package types if they are easily recognized or commonly used.

EHS clients include:

- ◆ Lear Corporation
- ◆ Kraft Foods
- ◆ Alticor
- ◆ Delphi Automotive
- ◆ Dextech
- ◆ Consumers Energy
- ◆ Dana Corporation
- ◆ American Axle & Manufacturing
- ◆ General Motors
- ◆ Steel Case
- ◆ DTE Energy
- ◆ Pfizer
- ◆ Eaton Corporation
- ◆ Median Automotive
- ◆ Exelon Energy
- ◆ Cascade Engineering
- ◆ Gill Industries
- ◆ Herman Miller
- ◆ Haworth
- ◆ Honeywell
- ◆ Textron
- ◆ Barnes Aerospace
- ◆ BEHR America
- ◆ O'Leary Paint
- ◆ Trimquest
- ◆ Styker Medical
- ◆ Kaumagraph Flint
- ◆ TESA Tape
- ◆ Kent County DPW
- ◆ Phillips Service Industries

OSHA Corner - Eye Safety

Question: Recently, I started as the general manager of a job shop metal finishing plant. One of my responsibilities is health and safety of the employees, which I take very seriously. We only have one safety shower/eye wash station that is located at one end of our largest plating line. This seems insufficient. What is the OSHA requirement?

Answer: OSHA regulations (29 CFR 1910.151[c]) state that where the eyes or body of any person may be exposed to injurious and corrosive chemicals, suitable facilities for quick drenching or flushing of the eyes and body must be provided within the work area for immediate emergency use. OSHA does not go into detail what this means but uses "industry standards." For a number of safety issues, OSHA recognizes standards set by the American National Standards Institute (ANSI) as "industry standards".

Under ANSI Z358.1, emergency showers and eye wash equipment are recommended to meet the following:

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SPCC Update—October 2007 Amendments

EPA has proposed amendments to the SPCC rule that will increase clarity and tailor certain requirements for easier and increased compliance. The regulated community now has the opportunity to comment on these proposed changes during a 60-day comment period, following publication of the proposed rule in the Federal Register.

EPA is requesting comments on the following proposed changes to the SPCC regulations: All SPCC-regulated facilities would be potentially affected by the proposed amendments to provide:

- clarity on the general secondary containment requirements;
- flexibility in the security requirements;
- flexibility in the use of industry standards to comply with integrity testing requirements;
- additional flexibility in meeting the facility diagram requirements; and
- clarification on the flexibility provided by the definition of "facility."

In addition to the amendments listed above, EPA is proposing to:

- Exempt the following from SPCC regulations:
 - ◆ hot-mix asphalt and hot-mix asphalt containers;
 - ◆ pesticide application equipment and related mix containers used at farms;
 - ◆ heating oil containers at single-family residences; and
 - ◆ completely buried oil storage tanks at nuclear power generation facilities that meet the Nuclear Regulatory Commission design criteria and quality assurance criteria at 10 CFR part 50, Appendices A and B.

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EHS Management Strategies has developed these training programs to help our clients meet business and regulatory compliance needs. Each program is designed to reinforce key concepts and considers each student's learning style. These programs consist of lecture and group exercises designed to keep the student interested.

Management Systems

Designing Process Improvement Projects using your ISO 14001 EMS (1 day): This program will provide an overview of environmental performance and establishing meaningful EHS metrics. It will include an overview of typical improvement projects and case studies. The student will learn how to develop and implement new EMS project.

EMR Training (1-day): New Environmental Management Representatives (EMRs) need a good understanding of their ISO14001 environmental management system to be effective. This program was designed to give the new manager a detailed understanding of the ISO14001 standard, key EMS elements, and their role in driving the continuous improvement process.

Internal Auditor Training— TS16949, ISO 14001 or OHSAS 18001 (2 days): This program is for anyone who wants to conduct internal audits. It will provide a detailed overview of the TS16949, ISO14001 or 18001 standards and auditing techniques. This is a very “hands on” program filled with exercises.

Get ISO 14001 Certified in 120 Days (1 day): This is a program designed for anyone getting ready to implement an ISO14001 compliant EMS. The program will define Environmental Performance, detailed review of the ISO 14001 Standard, development of key EMS elements, and development of an implementation plan. The student will leave this class ready to begin implementing their EMS.

Lead Auditor Programs—TS 16949, ISO9000, ISO14000 (5 days): These are 5-day RAB accredited lead auditor programs. Each program is 36 hours with a final exam, and qualifies the student to become accredited auditors.

Auditor UPGRADE© (1-day): This is a one day program designed to designed for Quality Auditors that want to do EMS Auditing. The program will provide a good overview of the ISO14001 standard and auditing exercises designed to prepare someone with auditing skills to conduct EMS audits.

ANSI Z10 Occupation Health & Safety Management System Implementation (1 days): This course will provide a detailed overview of the Z10 standard and how to implement a Health & Safety management system. Each student will leave with a good working knowledge of the standard and the tools needed to develop an Z10 compliant H&S Management System. We will also cover the differences between Z10 and OHSAS 18001.

OHSAS18001 Overview and Implementation (1 day): This one day program will provide an overview of the OHSAS 18001 standard and how to implement a Health & Safety Management system. We will also map integration with the ISO14001 standard. The student will leave with the tools needed to plan their OHSAS 18001 certification.

EHS Compliance

Total WASTE Course (1 day): This program provides the training required under DOT for hazardous materials transportation and RCRA hazardous waste. The DOT training will cover the requirements of Subpart H, §172.700-172.704 and an overview of the RCRA regulations. Course includes materials, testing, and certification. *Available DOT or RCRA only.*

Hazwoper 8hr, 24hr, and 40 hr Courses: These programs meet the requirements for 29 CFR1910.120 for initial and annual hazardous operations training.

Confined Space (2 day): This course fulfills the classroom requirements of 29 CFR 1910.146 for Confined Space Entry. This is a MUST for anyone responsible for Confined Space programs.

Site Supervisor Training (1 day): This course meets OSHA training requirements for supervisors and managers involved in the management and administration of waste site activities. Per 29 CFR 1910.120, each site must have a Supervisor who has received an additional 8 hours of training beyond their initial 40 hour certification.

Training Schedule Public Courses				
Course	Cost	December	January	February
Designing Process Improvement Projects using your ISO 14001 EMS	\$495	Phoenix, AZ	Chicago, IL Toledo, OH	Grand Rapids, MI Detroit, MI
NEW EMR Training (1-day)	\$495	Orlando, FL Atlanta, GA	Grand Rapids, MI Detroit, MI	Saginaw, MI Indianapolis, IN
ISO 14001 Internal Auditor (2-days)	\$695	Orlando, FL Atlanta, GA	Grand Rapids, MI Detroit, MI	St. Louis, MO Toledo, OH
TS16949 Internal Auditor (3-day)	\$1,195*	Indianapolis, IN Milwaukee, WI	Chicago, IL Detroit, MI	Grand Rapids, MI Fort Wayne, IN
Get ISO 14001 Certified in 120 Days (1 Day)	\$695	Orlando, FL Chicago, IL	Indianapolis, IN Chicago, IL	Detroit, MI Grand Rapids, MI
ISO14001 Lead Auditor Training (5-days)	\$1,575*	Columbus, OH Dallas, TX	Cleveland, OH Philadelphia, PA	Cincinnati, OH Tampa, FL
ISO14001 Auditor UPGRADE (1-day)	\$495	Denver, CO Huston, TX	Detroit, MI Grand Rapids, MI	Chicago, IL Indianapolis, IN Toledo, OH
ANSI Z10 OH&S Management System Implementation (new)	\$655		Orlando, FL	Detroit, MI Chicago, IL
OSHAS 18000 Overview and Implementation (1-day)	\$495	Orlando, FL	Detroit, MI	Chicago, IL Atlanta, GA
TOTAL Waste Program (DOT & RCRA)	\$425/both \$255/ea	Cleveland, OH	Grand Rapids, MI Detroit, MI	Grand Rapids, MI Chicago, IL
Hazwoper Refresher 8 hr, 24 hr, and 40 hr (Many more locations and dates please contact us)	\$125 \$425 \$525	Detroit, MI Lansing, MI Chicago, IL Cleveland, OH Cincinnati, OH	Detroit, MI Lansing, MI Chicago, IL Cleveland, OH St. Louis, MO	Detroit, MI Lansing, MI Chicago, IL Cleveland, OH St. Louis, MO
OSHA Site Supervisors Training	\$235		Detroit, MI	Chicago, IL Milwaukee, WI
OSHA Confined Space for Industry (2-day)	\$695		Grand Rapids, MI	Detroit, MI Chicago, IL

To get specific dates and to register contact [Jim Charles](mailto:JimCharlesPE@Charter.net) at JimCharlesPE@Charter.net. (*) These courses offered at significant discounts for 30, 60, and 90 day prepayment. Don't see your location contact us!!! All pricing based on 30 day advanced payment subject to our cancellation policy. Add \$100 for late registrations.



Any of these courses can be held at your location with 6 or more students

OSHA Corner—Eye Safety (continued)

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- a) placed within 10 seconds travel time of a hazard, within 10 ft of strong acids or caustics
- b) be able to flush out both eyes simultaneously
- c) nozzles must be protected from airborne contaminants
- d) able to maintain a minimum flushing rate of 0.4 gpm for eyewash and 20 gpm for shower for 15 minutes
- e) use "stay open" valves to keep hands free to hold eyelids open
- f) begin flushing within one second of activation
- g) identify location with a highly visible sign
- h) ensure that the location is readily accessible and free of obstructions
- i) equipment properly maintained
- j) employee training in use of equipment
- k) use of water at "tepid" temperatures Tepid temperatures are defined as being moderately warm or lukewarm. The ANSI standard does not give a "numerical" value for what is considered "tepid temperature." We have seen articles where various sources have expressed their definition of tepid waters as anywhere from 60-92F. There seems to be more of a concern regarding "higher" temperature water than "lower" temperature water.

Based upon our numerous site evaluations, we have found these common unsafe issues regarding emergency showers and eye washes: only "eye flush bottles" available, these are fine if in addition to eye washes; the emergency showers are connected to a water supply unable to deliver 20 gpm. For 20 gpm, a one-inch water supply, minimum, is usually needed; safety shower and eye wash access blocked by drums or parts containers; safety shower or eye wash stations not highly visible due to dirt buildup and corrosion and equipment not maintained or functioning.

Can a "SOLID" be a RCRA Corrosive Waste?

According to 40 CFR 261.22, a solid waste exhibits the characteristic of corrosivity (D002) if a representative sample of the waste has either of the following properties:

- ♦ It is aqueous and has a pH less than or equal to 2 or greater than 12.5, as determined by a meter using Method 9040 (SW-846 test method)
- ♦ It is a liquid and corrodes steel (SAE 1020) greater than 6.35mm (0.25 inch) per year at a temperature of 55C as determined by the test method specified in NACE (National Association of Corrosion Engineers) Standard TM-01-69 as standardized in the SW-846 manual.

EPA currently does not have a definition or test method for solids that are corrosive; however, at least one state, California, regulates solid corrosive hazardous waste.

EHS Compliance Programs 2007 Rates	Cost
Environmental Compliance Assessment: EHS-MS has developed a risk based approach to conducting environmental compliance assessments to reduce your risks of regulatory enforcement and to comply with your ISO 14001 EMS. This program includes a pre-audit assessment, 1 or 2 day onsite audit, and preparation of an audit report. This will include a review of the applicable air, water, and waste regulations. A draft assessment report will be issued with a detailed list of findings and finalized upon approval from the client.	\$1,975 (1-day) \$2,450 (2-day)
In Plant Services: Many times an EHS manager needs temporary help to get a project completed or EHS expertise to help resolve a compliance issue. EHS-MS will provide a professional to support your projects – permitting, EHS reporting, waste water optimization, EHS audits, site remediation, or any others. Rate does not include travel expenses.	\$625/day
DOT Training: EHS-MS will deliver a one day DOT Hazardous Materials training program designed to meet the requirements for DOT training required every 3 years. This program will cover identification of hazardous materials, shipping papers, labeling & marking, security, and site safety. We will incorporate information for the specific materials managed at your plant. This program includes training documentation and testing as required. (up to 6 students). Does not include travel costs and additional students \$125/each.	\$1,450
Hazard Communications and RCRA Training Program Development: EHS-MS will conduct an onsite review of your operations, review the waste and chemical management program, and develop a site specific Hazard Communications and RCRA training program. We will provide an electronic copy of all training materials. We can also deliver the training .	\$2,990 \$975 (training)
Waste Management Plan/Pollution Prevention Assessment: EHS-MS will conduct an on-site review of your facilities waste and recycling programs. We will then develop a written plan for how these wastes are to be disposed of and recommended disposal facilities. We will look for opportunities to re-characterize waste and identify savings on waste disposal. The plan will identify the generated waste streams, record keeping, and training requirements. We will typically identify \$1,000's in annual waste reduction savings.	\$3,345
Chemical Inventory and MSDS Review: EHS-MS will spend a maximum of 2 days at your facility developing a detailed chemical inventory for your facility. This inventory will be summarized in an excel spread sheet. We will also verify that the facility had an MSDS for each material.	\$2,445
ISO 14001 Internal Auditor Training: EHS-MS has developed an interactive and highly effective auditor training program. This program will provide a detailed overview of the ISO 14001 standard, the auditing process, ISO 19011 auditing guidance, and how to plan and conduct an internal audit. It includes many hands on exercises to re-enforce the auditing skills needed. (up to 6 students) Additional students \$250/each. Does not include travel expenses.	\$2,950 (2-day)
Internal EMS Audits: EHS-MS help the facility to plan and perform ISO14001 internal audits of their environmental management system (EMS). This can include audit planning, records review, and completion of internal Audit. EHS-MS staff can provide checklist/audit plan templates or use the facility's. Does not include travel expenses.	\$625/day
ISO 14001 or OHSAS 18001 QuickStart: This is program designed for those getting ready to implement an ISO 14001 or OHSAS 18001 management system. This is a 3-day process. Day 1 will review the facilities operations, meet with plant management, and assess existing EMS programs. Day 2 will be a 1/2 training program for the implementation team and development of a detailed implementation plan. Day 3 includes a 2 hour leadership training for plant management, presentation of the implementation plan, and facilitation of the first implementation team meeting.	\$3,750
SPCC Review/Certification: A PE will spend one day at your facility reviewing your updated SPCC plan and providing certification. Any discrepancies will be discussed and PE will complete a final review and issue certification of your plan once updated.	\$850

BLS Reports Workplace Injury and Illness Overall Rate Lowest Ever Recorded

The rate of workplace injuries and illnesses in private industry declined in 2006 for the fourth consecutive year, the Labor Department's Bureau of Labor Statistics (BLS) reported. Approximately 4.1 million injuries and illnesses occurred in 2006. The number translates to a rate of 4.4 cases per 100 full-time employees, slightly less than the 4.6 rate reported last year. Secretary of Labor Elaine L. Chao said that "workplace injuries and illnesses declined three percent in 2006 over the previous year against the backdrop that overall hours worked increased (two percent). The Department of Labor continues to focus on ensuring that workplace injury and illnesses rates continue to decline and that workers are healthy and safe on the job."

Please email JimCharlesPE@charter.net for a copy of the report.

SPCC Update - October 2007

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- ◆ Differentiate integrity testing requirements for containers that store Animal Fats or Vegetable Oils (AFVO) and meet certain criteria and FDA regulatory requirements.
- ◆ Define "loading/unloading rack" in order to clarify the equipment subject to the provisions for facility tank car and tank truck loading/unloading racks and exclude farms and oil production facilities from the loading/unloading requirements; and
- ◆ Streamline:
 - ⇒ requirements and allow the use of an SPCC Plan template for a subset of qualified facilities known as "Tier 1" qualified facilities (i.e., with no individual oil storage container with a capacity greater than 5,000 U.S. gallons up to an aggregate of 10,000 gallons); and
 - ⇒ several requirements for oil production facilities, including:
 - ⇒ modify the definition of "production facility", consistent with the proposed amendments to the definition of "facility";
 - ⇒ extend the timeframe by which a new oil production facility must prepare and implement an SPCC Plan;
 - ⇒ exempt flow-through process vessels at oil production facilities from the sized secondary containment requirements, while maintaining general secondary containment requirements and requiring additional oil spill prevention measures;
 - ⇒ exempt flowlines and intra-facility gathering lines at oil production facilities from all secondary containment requirements, while establishing more specific oil spill prevention measures;
 - ⇒ clarify the definition of "permanently closed" as it applies to an oil production facility. (Note: EPA is also taking comment on approaches that could be used to establish alternative criteria for an oil production facility to be eligible to self-certify an SPCC Plan as a qualified facility, and approaches to address produced water containers at oil production facilities.)

Clarify that nurse tanks used at farms are included in the December 2006 amendments related to mobile refuelers and therefore exempt from the specifically sized secondary containment requirements for bulk storage containers. All SPCC regulated facilities are still required to comply with the existing SPCC regulations while EPA considers these proposed amendments. For information about facilities required to comply with the SPCC and any compliance date extensions, please visit www.epa.gov/emergencies.

Prepaid Engineering Services (Save 30%)

by James Charles, PE—EHS Management Strategies, LLC

NO, this is not another pre-paid cell phone deal where you end up paying more for the service.

Many companies hire consulting firms to assist with annual environmental reporting. This can include SARA Tier II, Air Quality (MAERS), Hazardous Waste, Toxic Release Inventories (TRI), and annual waste water reports. EHS Management Strategies has developed two programs that can reduce your consulting costs by up to 30%:

1. Prepaid Environmental Reporting
2. Contract EHS Manager Program

The **Prepaid Environmental Reporting** allows companies to pay for their 2008 reporting costs using 2007 funds. EHS- MS will review your previous environmental reports and develop a cost to conduct this reporting for 2008. We will include costs to perform the work on a normal consulting basis and offer a discount if the costs are prepaid (prior to December 31, 2007).

The **Contract EHS Manager** program begins with **QuickAssessment**TM audit. The QuickAssessmentTM audit is a one day comprehensive review of site operations, environmental records, and environmental reporting requirements. Upon completion of the QuickAssessment we will issue a summary of corrective actions and detailed budget for environmental costs for the year. This will include costs for routine reporting and any projects identified during the QuickAssessment. We will then develop a monthly fee to complete the projects and provide routine EHS support.

Both of these programs can save costs and simplify your EHS programs. For information on either program please contact us at JimCharlesPE@charter.net or (616) 389-9949.

Can EHS Performance Affect Shareholder Value? (con't)

(Continued from page 1)

ity improvements, but also through 'intangibles' such as brand equity, human capital, and strategy execution," the report states.

The report's third section identifies 10 intangible value drivers and suggests performance indicators that can be used to quantify their EHS aspects. These indicators are illustrated with real examples from GEMI member companies.

The fourth section of the report provides the 6-step *Clear Advantage* process for identifying, assessing, planning, executing, evaluating, communicating, and continually improving EHS performance to stakeholders in ways that can increase value. The report provides resources, such as the "Invisible Advantage" diagnostic tool to help companies assess the relative strength of their intangible assets.

While the SRI, NGO, and academic communities have long recognized the link between social and environmental performance and shareowner value, the business community has been slower in acknowledging this link publicly.

This reports does an excellent job creating a nexus between EHS performance and shareholder value. IT presents the information in terms senior management can understand. To get a copy of this report email JimCharlesPE@charter.net.

Web Site of
the Month

Online DOT Hazmat Table, Check out this site:

http://www.hazplus.com/un/cfr_table.asp

EHS Management Strategies, LLC

Contact:

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RAB Lead Auditor and Internal Auditor Programs

Internal Auditing is one of the key's to an effective management system. EHS offers these programs for **ISO14001, OHSAS18001, TS16949, and ISO9000** management systems.

Lead Auditor Training (5-day)

This is a RAB accredited course that is necessary to become a RAB certified Lead EMS Auditor. This 36 hour program will cover all aspects of ISO 14001 and auditing protocol. The student will leave with a detailed understating of the standard, how to conduct EMS audits, and how to setup an auditing program. We will walk the student through a variety of auditing exercises and hands on workshops that will give the students

confidence in their ability to conduct audits. Upon course completion and passing the exam the student will receive a Lead Auditor Training certificate. This course is offered through our partner program.

Internal Auditor Training (2-day)

This program is designed for people who will conduct internal audits of their facility. The program will cover the standard, auditing protocols, and hands on auditing exercises. The auditor will leave the course with the ability to start doing internal audits.

Both of these programs are offered onsite and through our public course offerings

EHS Management Strategies, LLC

EHS offers high quality cost effective consulting services in the following areas:

- ◆ Environmental Coaching Services
- ◆ Environmental Management Information Systems (EMIS) implementation and training
- ◆ RoHS and WEEE Evaluation & Compliance
- ◆ EHS Auditing
- ◆ EHS Compliance Planning and Training Development
- ◆ Sustainability Planning
- ◆ Environmental liability assessments and financial reporting (Sarbanes-Oxley Compliance)
- ◆ Site remediation technology and closure evaluations
- ◆ Integrated Contingency Planning—SPCC, Stormwater, RCRA, Risk Management Plans
- ◆ Hazardous Waste Management and Cost Minimization
- ◆ ISO 14001 / OHSAS 18001 Management Systems
- ◆ ASTM Phase I/ BEA / Due Diligence
- ◆ Process Safety Management (PSM) Tools
- ◆ Air Quality & Permitting
- ◆ Remediation Technologies (patented)
- ◆ Data Management & IT Tools
- ◆ Industrial Cleaning

EHS specializes in delivering these services in a manner that integrates compliance into your business operations. Our compliance assessment services focus on best management practices as well as regulatory compliance. **Please consider us for your next consulting assignment.**

