

**Multi-state Working Group  
ISO/14001/ EMS Project:  
The National Database on Environmental  
Management Systems**

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**Key Words: ISO 14001, environmental,  
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Illinois**

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ISO/14001/ EMS Project:  
The National Database on Environmental  
Management Systems**

**Mark Gerberding  
ACHMM 2001 National Conference  
Monday, August 20, 2001**

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**Background**

- **Convene meeting with fifty Illinois companies (February 1998)**
- **Convene Meeting with Illinois environmental groups (June 1998)**
- **Eleven Illinois companies and one local government volunteer to contributing data on their EMS to national database**

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**Participating Illinois Companies:**

- American NTN Bearing Manufacturing Corporation
- Bridgestone/Firestone Company
- Akzo-Nobel Aerospace Coatings, Inc.
- Fuji-Hunt Photographic Chemicals, Inc.
- ITT McDonnell & Miller
- Motorola, Inc. – Arlington Heights and Northbrook
- International Engine Corporation
- S&C Electric Company
- SWD, Inc.
- Village of Lemont
- Zexel USA Corporation

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**Data Collection**

- Facilities asked to complete three Data Protocols
  - Baseline Protocol—measured where facility was at a given point in time
  - EMS Design Protocol—measured how company developed EMS, principle drivers, who was involved in making decisions.
  - Update Protocol—measured how facility has operated under EMS since baseline year
- Extensive QA/QC process
- Information received from participating companies maintained in consolidated database at the University of North Carolina
- Sources of information maintained in database remain anonymous

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**Data Protocols**

- Environmental Performance Indicators
- Environmental Condition Indicators
- Environmental Compliance Indicators
- Pollution Prevention
- Costs/Benefits
- Stakeholder Involvement

Environmental Performance Indicators— Asks for information about potential and actual impacts of organization on air, water, land. Data provides the means to understand if environmental impacts are greater or lesser under environmental management systems or traditional regulatory approaches

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**Data Protocols**

- Environmental Performance Indicators
- **Environmental Condition Indicators**
- Environmental Compliance Indicators
- Pollution Prevention
- Costs/Benefits
- Stakeholder Involvement

**Environmental Condition Indicators—** Asks for information about potential and actual impacts of organization on air, water, and land to determine a company's contribution to ambient condition

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**Data Protocols**

- Environmental Performance Indicators
- Environmental Condition Indicators
- **Environmental Compliance Indicators**
- Pollution Prevention
- Costs/Benefits
- Stakeholder Involvement

**Environmental Compliance Indicators—** Asks for information on the impact of an EMS on the company's compliance performance. Also measures organization's compliance as it relates to other environmental aspects of the company. Measures how effectively the company handles regulatory noncompliance

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**Data Protocols**

- Environmental Performance Indicators
- Environmental Condition Indicators
- Environmental Compliance Indicators
- **Pollution Prevention**
- Costs/Benefits
- Stakeholder Involvement

**Pollution Prevention—** Asks for information on company's pollution prevention program

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**Data Protocols**

- Environmental Performance Indicators
- Environmental Condition Indicators
- Environmental Compliance Indicators
- Pollution Prevention
- **Costs/Benefits**
- Stakeholder Involvement

**Costs/Benefits —** Asks questions designed to help companies produce relevant and consistent information about the costs/benefits of using and EMS. Serves as a frame of reference to compare costs/benefits of organization that operate under non-EMS with those operating under EMS

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**Data Protocols**

- Environmental Performance Indicators
- Environmental Condition Indicators
- Environmental Compliance Indicators
- Pollution Prevention
- Costs/Benefits
- **Stakeholder Involvement**

**Stakeholder Involvement —** Asks for information on the extent and input from interested parties into company's EMS

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**Benefits to Companies for Participating in Project:**

- **Resources available from Illinois EPA**
  - Office of Pollution Prevention
  - Office of Community Relations
- **Technical Assistance**
  - Environmental Accounting/Process Mapping
  - Public Involvement
  - Risk Communication
  - Sustainable Business Practices
  - Community Assessments

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**Benefits to Companies for Participating in Project:**

- Access to nationwide database
- National EMS Conference
- Networking opportunities
- Publicity/Recognition Ceremony
- Assistance from Illinois EPA on Completing Data Protocols

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**Future**

- Begin compiling information for Update Protocol
- Additional funding from USEPA to continue research
- State/Federal programs
  - Performance Track (USEPA)
  - Green Permits (Oregon)
  - Green Tier (Wisconsin)
  - RIPP (Illinois)

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