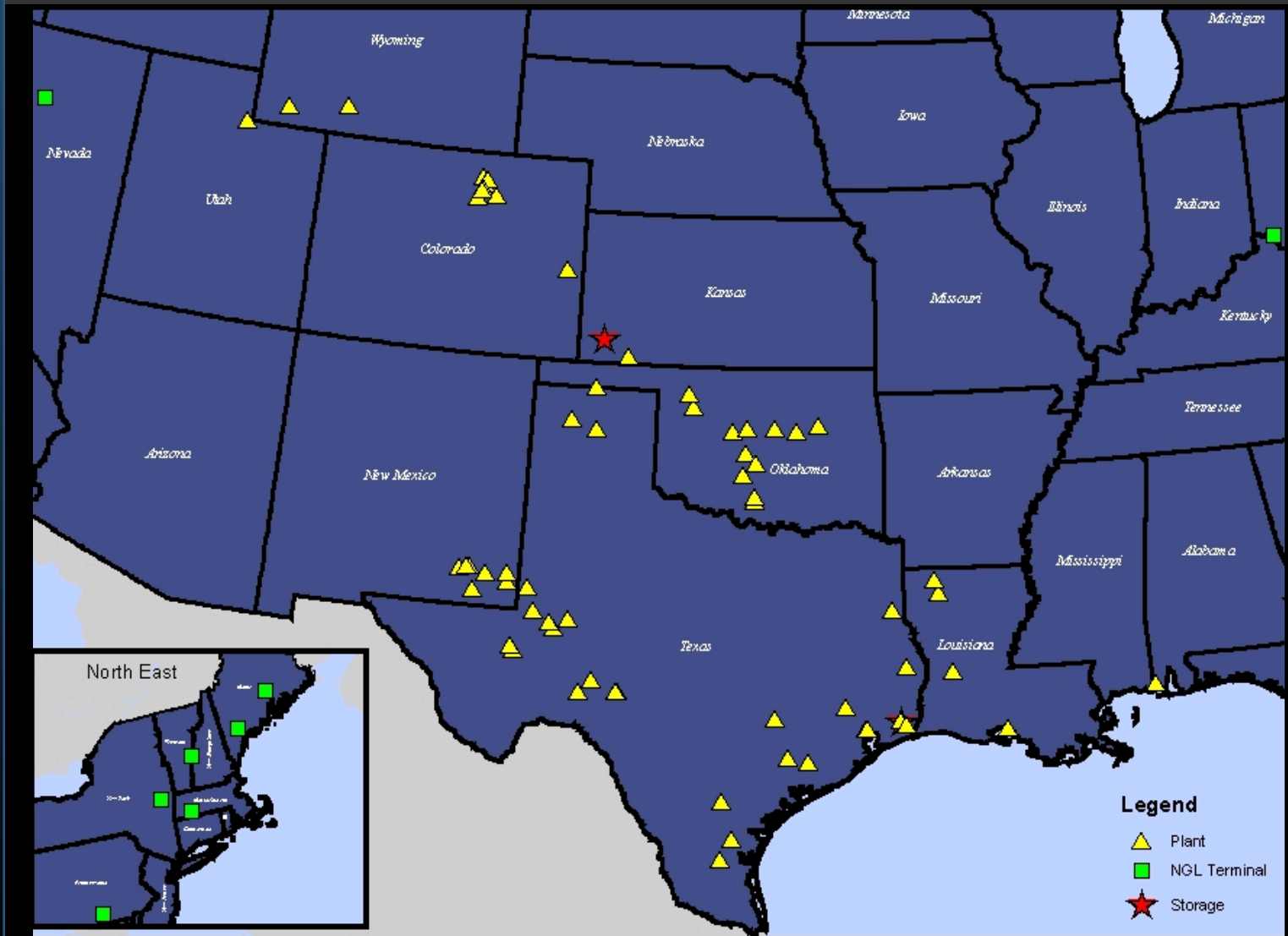# NAEM

## EHS Management Information Systems

## K. C. Kincaide

**Director, Health & Safety**
**Duke Energy Field Services**

# EHS – Management Information Systems

**72 PSM Regulated Facilities**

# EHS – *Management Information Systems*

- Information Management Needs
  - ◆ 72 PSM/RMP Facilities
  - ◆ 185 Units and Supervisors
  - ◆ 1800 Operations Employees
  - ◆ 2800 Total Employees
  - ◆ EHS Auditing
  - ◆ Recommendations/Action items
  - ◆ MOCs
  - ◆ PHAs
  - ◆ Incidents/Investigations

# EHS – *Management Information Systems*

- Unwanted Events
  - ◆ Injury/Illness
  - ◆ Equipment Damage
  - ◆ Environmental Release
  - ◆ Vehicle Accident
  - ◆ Contractor Injury/Incident
  - ◆ Production Interruption

# EHS – *Management Information Systems*

- Obstacles to achieve compliance
  - rapidly expanding business
  - multi culture
  - Inconsistent levels of compliance
  - lack of uniform policy and guidance
  - incomplete buy-in from all operating areas
  - failure to address corrective actions

# *EHS – Management Information Systems*

- Response to overcome obstacles
  - ◆ Sanction Corporate Steering Team
  - ◆ Sanctioned by Policy Committee
  - ◆ Sponsorship by Corporate EHS
  - ◆ Membership/participation from all operating areas and corporate organizations

# *EHS – Management Information Systems*

- Infrastructure for Compliance
  - ◆ Policies
  - ◆ Training
  - ◆ Auditing
  - ◆ Safe Work Practices
  - ◆ Implementation of electronic tools
    - ▪ audit tracking
    - ▪ electronic MOC
    - ▪ designated PHA software

# *EHS – Management Information Systems*

- Reasons for Information Management
  - ◆ Consistency
  - ◆ Oversight
  - ◆ Information Sharing
  - ◆ Documentation
  - ◆ Analysis
  - ◆ Understanding
  - ◆ Corrective Actions

# *EHS – Management Information Systems*

- Knowledge Management System Applications
  - ◆ Resolution Tracker ®
  - ◆ PHA Workshop ®
  - ◆ Investigator ®
  - ◆ Electronic Management of Change (eMOC)
  - ◆ Occupation Injury & Illness (OI&I)
  - ◆ Badger Mail ®
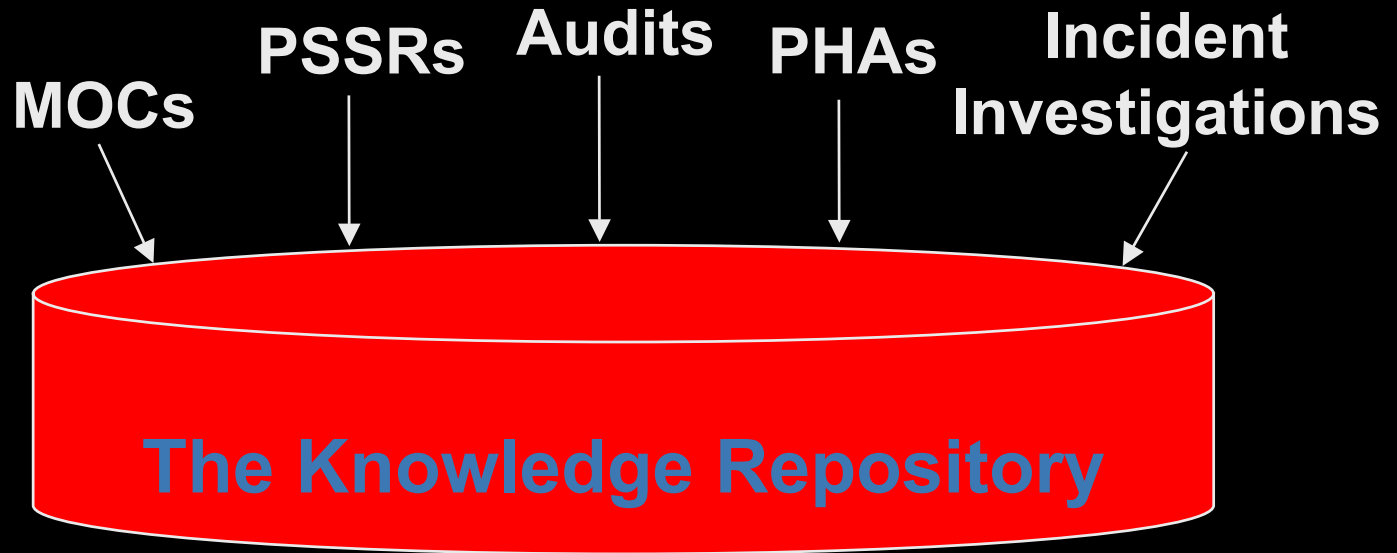
# EHS – *Management Information Systems*

- Lessons Learned – IT
    - ◆ Client Server with Citrix
    - ◆ Employ Production and Test Server
    - ◆ Dedicated Application Support
    - ◆ Anticipate Back-End Changes
    - ◆ Data Base Licensing
    - ◆ Application Sponsored User Conference

# *EHS – Management Information Systems*

- Lessons Learned – Use and Implementation
  - ◆ Training
  - ◆ User Advocates/Power Users
  - ◆ Usage Monitoring
  - ◆ Report and Data Retrieval
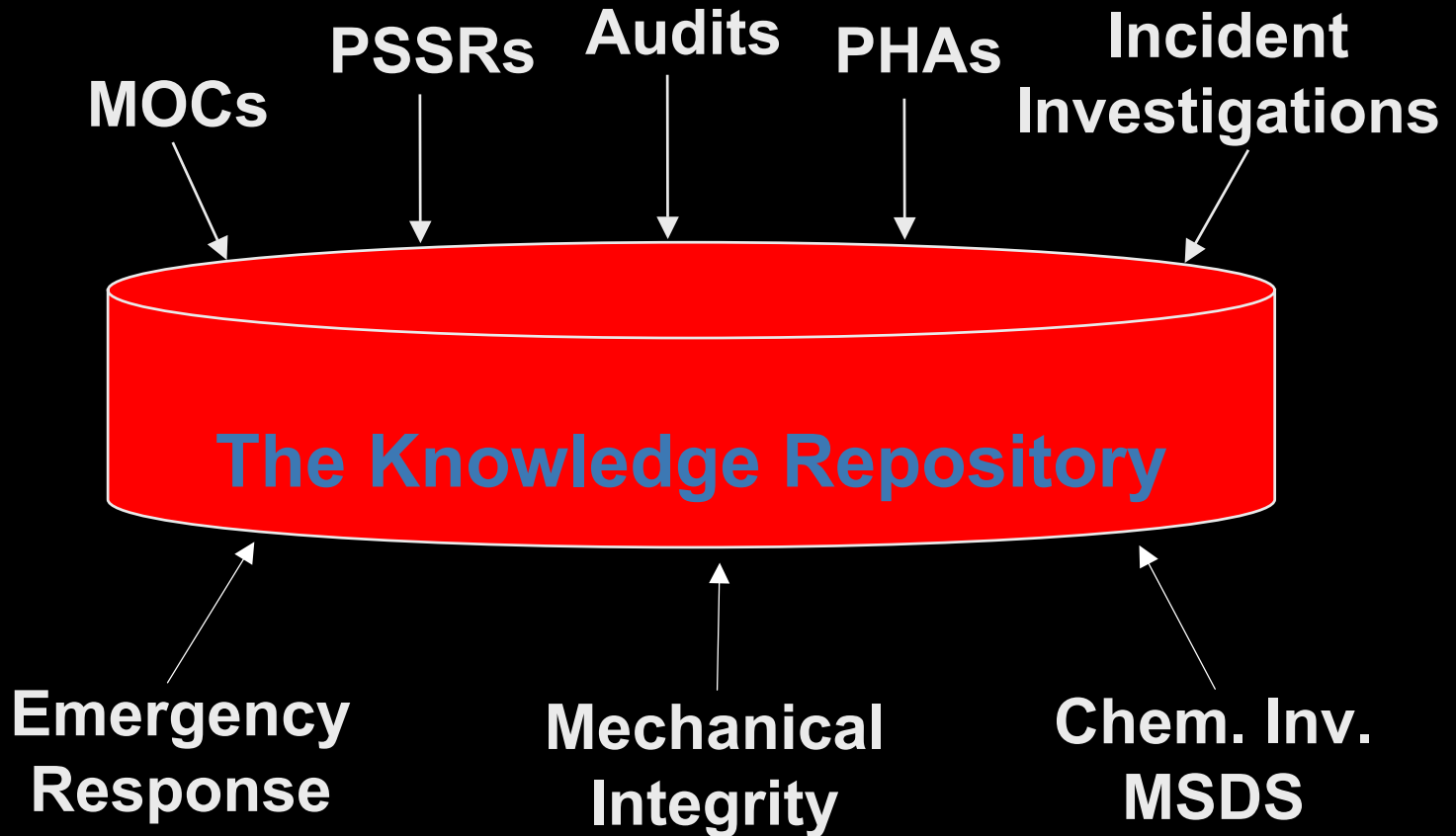  - ◆ Local IT capabilities

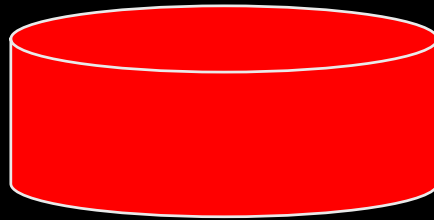# EHS – Management Information Systems

- <u>The Present</u>

MOCs  PSSRs  Audits  PHAs  Incident Investigations

**The Knowledge Repository**

# EHS – Management Information Systems

- ## The Future

PSSRs  Audits  PHAs  Incident Investigations

MOCs

**The Knowledge Repository**

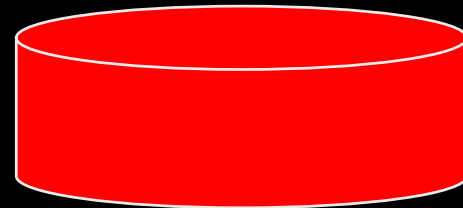Emergency Response

Mechanical Integrity

Chem. Inv. MSDS

# *EHS – Management Information Systems*

**Environmental**

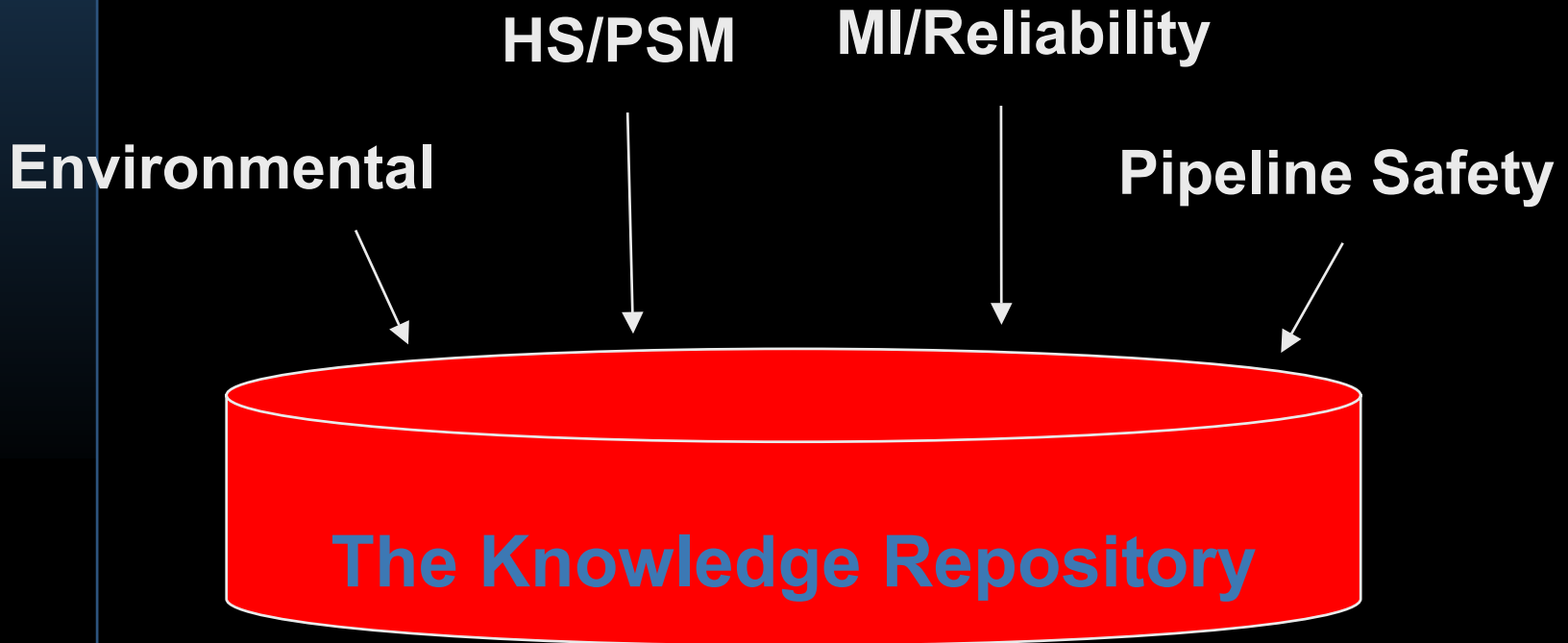**HS/PSM**

**MI/Reliability**
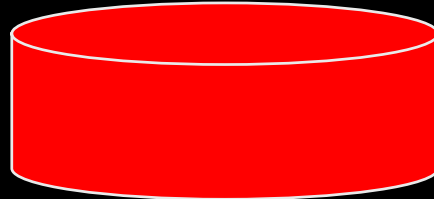
**Pipeline Safety**

# *EHS – Management Information Systems*

**HS/PSM**   **MI/Reliability**

**Environmental**

**Pipeline Safety**

**The Knowledge Repository**
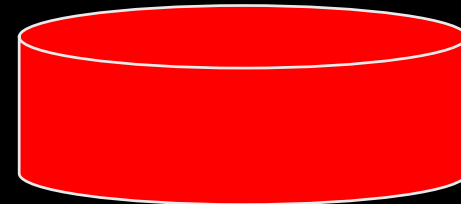
# *EHS – Management Information Systems*

Questions?