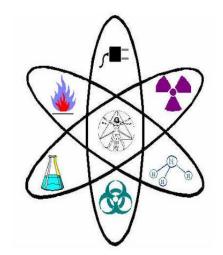
2<sup>nd</sup> NATIONAL SEMINAR ON HSE & FIRE CONTROL On 19-21<sup>st</sup> September 2002 under auspices of THE INSTITUTION OF ENGINEERS OF PAKISTAN Karachi Centre

# HSE INSPECTIONS, AUDITS AND SURVEYS BY MUHAMMAD ABDULLAH FAROOQUI HSE CONSULTANT

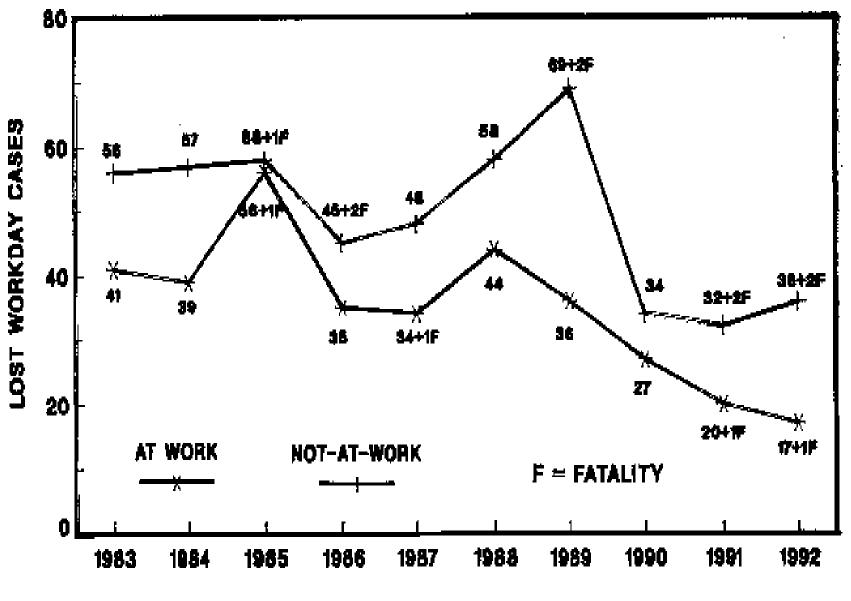
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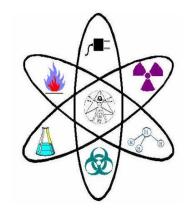
## **INTRODUCTION**



- GOOD HSE PROGRAMS INCREASE
   PROFITS AND REDUCE HUMAN
   MISERY
- DIFFERENT INDICES ARE USED TO MONITOR PERFORMANCE AND PROGRESS



YEARS



## **INTRODUCTION**

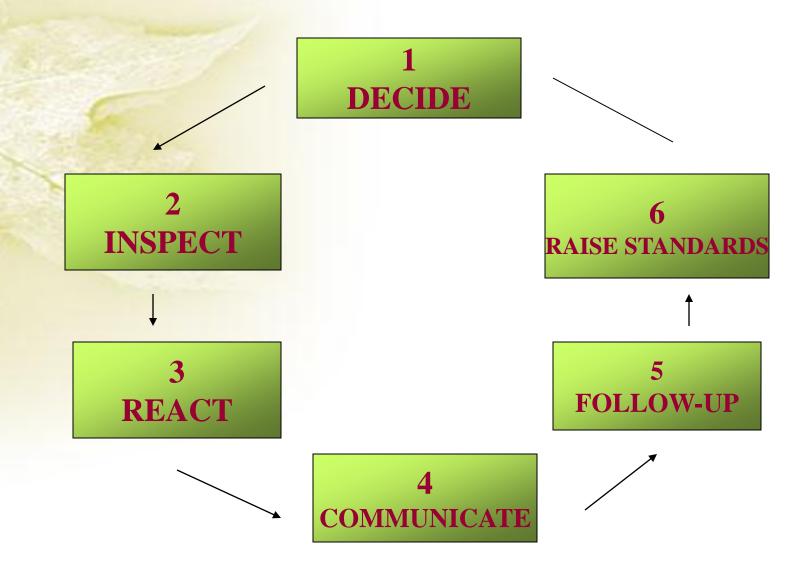
- ALL SUCH INDICES SHOW AFTER EFFECTS BUT NOT THE PICTURE AS EXISTS ON GROUND
- INSPECTIONS/AUDITS/SURVEYS ARE USED TO EVALUATE DAY TO DAY PHYSICAL ACTIVITIES RELATING TO HSE
- DAILY INSPECTIONS ARE CARRIED OUT BY LINE SUPERVISORS OR MANAGERS
- AUDITS AND SURVEYS ARE CONDUCTED BY A TEAM OF SPECIALISTS/EXPERIENCED MANAGERS

# **OBJECTIVES**

- APPRECIATE RIGHT PRACTICES AND ENSURE CONTINUITY
- IDENTIFY WRONG PRACTICES AND EXPLAIN EXPECTED STANDARDS
- DEMONSTRATE THAT EMPLOYEES PROTECTION AND WELFARE IS PRIME
- STOP WRONG PRACTICES AND BRING IN IMPROVEMENT TO ACHIEVE HIGHER STANDARDS
- FINDINGS REFLECT STANDARD SET BY A SUPERVISOR OR MANNER

ONE GETS NOT WHAT ONE EXPECTS BUT WHAT ONE INSPECTS

### **SIX STEPS OF INSPECTION CYCLE**



#### ANNEXURE I A. HSE INSPECTION CHECKLIST 1. DECIDE 2. INSPECT 3.REACT 4. COMMUNICATE 5. FOLLOW-UP 6.RAISE STANDARDS

#### **Personal Protective Equipment**

- •Eyes & Face
- •Ears
- •Head
- •Hands and Legs
- Respiratory System
- •Trunk

#### Action of People • Adjusting personal protective equipment • Changing position • Rearranging job • Stopping job • Attaching grounds-Lockouts

### Position of the People

- •Striking against-struck by
- •Caught between
- •Falling
- •Temperature extremes
- Inhaling-Absorbing
- -Swallowing
- Over exertion

#### Tools and Equipment •Right for the job •Used correctly •In safe condition Procedures & Order lines •Adequate •Established •Maintained

## **B.INSPECTION REPORT**

#### **UNSAFE ACT OBSEREVED**

A technician was holding a sheet metal plate with bare hands while it was being formed into an end plate of a tank. The raw cut sheet had raw edges all around

Name: XYZ

#### **ACTION PLANNED**

Had the man leave the job, get the cotton gloves and wear. Told him to be careful in the future and not to expose himself to unnecessary hazards such as sharp edges of a plate

Date: 30.8.77



## **AUDITS & SURVEYS**

- AUDITS MAY BE PLANNED MONTHLY OR QUARTERLY OR ANNUALLY
- WHEN INDIVIDUAL SUPERVISOR OR MANAGER FAILS TO IMPROVE HIS AREA, USING A TEAM OF EXPERIENCED SUPERVISORS/MANAGERS IS HELPFUL
- DETAILED SURVEYS ARE PLANNED ONCE IN 3, 4 OR 5 YEARS, TO HELP LARGE AREAS/ INSTALLATIONS USING A TEAM OF EXPERIENCED SPECIALISTS, MANAGERS ETC



## **AUDITS & SURVEYS**

- EXHAUSTIVE CHECKLISTS ARE USED AS HANDY TOOLS
- HAZOP & HAZAN STUDIES MAY BE INCORPORATED AS PER SPECIAL REQUIREMENT
- MECHANICAL RELIABILITY SURVEY ONCE IN 10 YEARS CAN BE AN ADDED FEATURE

### **ANNEXURE II**

### HEALTH, SAFETY & ENVIRONMENT AUDIT & SURVEY CHECKLIST

- 1. Organization & Administration
- 2. Accident/Inspection Investigation
- 3. Safe work practices/ Work permit system
- 4. Personal protection Equipment
- 5. Fire protection & control
- 6. Occupational Health and Industrial Hygiene

- 7. Housekeeping
- 8. Process Hazard control
- 9. Machinery Hazard control
- **10. Environmental controls**
- **11. Motivation and Training**
- **12. Communication & Publicity**
- **13. Material Handling**
- **14. Laboratory Hazard control**
- 15. Emergency Procedure/ Disaster control

#### HEALTH, SAFETY & ENVIRONMENT AUDIT & SURVEY CHECKLIST

<b>Organization &amp; Administration</b> •Is there a written HSE policy	Poor	Fair	Good	Excellent	Point Rating
statement and signed by CEO?					
<ul> <li>Does policy statement address</li> </ul>					
Occupational health, safety and					
environmental control commitment explicitly?					
<ul> <li>Have HSE committees been</li> </ul>					
formed at various levels and					
functioning effectively?					
•Are workers involved in these committees?					
•Is there a disciplinary clause incorporated in the policy or general management procedure for HSE purpose?					

# Maximum possible score for all the items?Actual Total ?% of maximum possible score?

# CONCLUSION

- IN PAKISTAN VARIOUS TYPES OF INDUSTRIES HAVE ACQUIRED SIGNIFICANT SIZE AND COMPLEXITY
- ACCIDENT CAN AFFECT NATURAL ECONOMY AND WAY OF LIFE
- ONLY AN EFFECTIVE HSE PROGRAM CAN ENSURE SUSTAINABLE DEVELOPMENT AND PROGRESS



# CONCLUSION

- PERIODIC AND REGULAR INSPECTION, AUDITS AND PROFESSIONAL SURVEYS SHOULD BE A PART OF SUCH HSE PROGRAMS
- SPECIAL COURSES TO TRAIN SUPERVISORS, SAFETY PROFESSIONALS AND MANAGERS ARE AVAILABLE AND SHOULD BE AVAILED

**INSPECTION WORKS LIKE MAGIC TO IMPROVE/MAINTAIN HSE PERFORMANCE** 

# THANK YOU