

MONSANTO CHEMICAL COMPANY

Location: Texas City, Texas

Date : August 3, 1961

Subject : Texas City Safety Index

PLAINTIFF'S EXHIBIT

MON-1585

To : Plant Manager's Safety Board

The subcommittee, appointed to study the Springfield Safety Index and possible application of similar index methods at Texas City, makes the following interim report.

Such an Index can be developed for this plant. However, it can be significant only if a sufficient sample is used-- such as, a unit or group supervised by a general operating supervisor or equivalent. The data will be acceptable and reportable only as long as the unit is compared with itself (not in competition with others) and the basis is understood.

The "units" recommended are as follows:

Material Handling	Methanol
Utilities	Polyethylene 41
Ethylene	Polyethylene 42
Styrene	Shops
VCM	Stores
AN	Pilot Plant & RPU
Oxygen-Acetylene	

The Index having a total value of 100 points would be divided:

- A. Injury - based on minor and serious injury data already available. The total value of this category will be worth 40% of total score.
- B. Inspection - based on multiple spot inspections in the "units" covering safety and housekeeping items (inspection form attached). These multiple five minute inspections will be made by safety inspectors on random basis. This category will be worth 20% of total score.

C. Incidents

-based on fire and spills requiring an alarm and near-misses. The near-miss is defined as an equipment failure or human error which did or could logically cause:

1. Significant hazard and/or injury to personnel.
2. Emergency shutdown of unit or portion of the unit.
3. Significant equipment damage.
4. Fire or spill handled without outside assistance.

The general operating supervisor will determine whether the incident is a near-miss and report by simplified form, (sample attached). This category will be 40% of total score.

Since maintenance field supervision is responsible for the safety of craftsmen in the areas, the scene of the injury or incident will be used to assign the points.

There were other possible Index items considered but rejected for various reasons.

Commendations, Reprimands, Awards for Man-hours

Safety Meetings

Fire Equipment Inspections

Relief Valve and Overspeed Testing

Hose Inspection

Membership in Wise Owl, Turtle, and Golden Shoe Club.

Housekeeping Inspections (Semi-annual)

These are either causes or an effort while the others are effects, or the incident causing these is already counted in the proposed items.

Although the injury data is relatively easily available except for the possible need of man-hours in each unit, there will be some period of time required to gain experience with data in inspection and incidents. The subcommittee feels that such needed experience can be gained in three or four months; therefore, we could be ready to begin actual rating of the units on January 1, 1962. This means a period of "dry runs" to collect base data.

It was our suggestion that this be sent to you with the agenda of the August PMSB meeting, and thus provide you the opportunity to study and comment on this prior to that meeting.

INDEX SUB-COMMITTEE

C. L. Gilmore

L. M. Buttery

F. E. Grissom

J. W. Kongable

/lrt
Attachments

SC

14800

LAM015392

TO: GENERAL OPERATING SUPERVISOR/SUPERINTENDENT/SAFETY DIRECTOR.

INCIDENT REPORT FORM

DATE _____

TIME _____

PLACE _____

TYPE OF INCIDENT

- ☐ Fire
☐ Spill
☐ Near-Miss

CAUSE

- ☐ Design
☐ Age
☐ Corrosion
☐ Human Error
☐ Equipment Mal-
function
☐ Unknown
☐ Other _____

AGENCY INVOLVED

- ☐ Process Equipment
☐ Maintenance Equipment
☐ Office or Lab. Equipment
☐ Flammable Material
☐ Other _____

TYPE OF NEAR-MISS

- ☐ Hazard to Personnel
☐ Emergency Shutdown
☐ Equipment Damage
☐ No fire alarm, but fire
or spill requiring no help
☐ None

Is formal report needed? _____

Brief Description: _____

Brief Statement of Cause: _____

Action---By Whom, When: _____

SC 14801

INITIALS.

Gen. Opr. Super. _____

Signed: _____

Superintendent _____

LAM015393