1965 - TSD OBJECTIVES

FINAL REPORT

I. Safe manufacture of quality chemicals at minimum long range cost.

A. Safety

1. Maintain major accident frequency of 0.00

Results: Major accident frequency 0.00

2. Attain Minor Injury rate of 2.50 or less. (Laboratory & TSD)

Results: Minor accident frequency

Lab	3.80
TSD	1.17
Department	2.49

Note: One TSD accident was on PNP Start-up when man was assigned to department. Therefore, correct department frequency should be 2.28.

3. Conduct monthly safety meetings (except months of Plant Wide Programs) by TSD members.

Results: 11 Meetings were held.

a) Train all personnel in use of Emerson Resuscitator
Results: Completed

b) Train all personnel in use of Scott Air Pak

Results: Completed

4. Engineering to upgrade plant safety

a) Separate City water from cooling water in:

1) Biphenyl - Aroclor

Results: Done - Project 1667

2) Chlorine

Results: In progress - Project 1846
Approved 3/26/65
Transmitted 7/23/65
EDC 3/1/66

3) Niran

Results: 5% complete - made preliminary survey.

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b) Complete program to upgrade high temperature systems in Biphenyl and Aroclor.

Results: Program canceled since new Biphenyl still project will eliminate problem.

c) Investigate protective devices for liquefied gas storage tanks in plant and take necessary action.

Results: Investigation completed in February and reported to Safety Board. Item has been added to 1966 objectives program for completion in July 1966.

5. Write two newspaper articles pertaining to safety.

Results: No action.

B. Quality

1. Develop "in-process" charts for all departments.

Results: 100% complete

2. Develop a way of measuring savings and benefits from quality control program.

Results: Investigations were made and problem appears to be hopeless. No further work is planned.

3. Perfect quality audit form and make an audit of Methyl Parathion.

Results: No work done.

4. Simplify scoring and reporting procedures.

Results: 95% complete. Charts must be converted to 3 sigma limits. All calculations and procedures are complete.

5. Make new PNP batch sheets as combined chart-log.

Results: 75% complete - all charts and work is complete. Department needs to institute use.

6. Establish a complete quality monitoring system in one department - process control charts incorporated into batch data sheets, with adaptive control adjustments if feasible - a procedure for evaluating status of in-process control.

Results: Completed in September in Chlorine Department.

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C. Cost Improvement

1. Attain specific cost improvements of at least $475,770 as detailed in the 1965 Cost Improvement Program.

Results: Target $475,770

Actual $443,560

% Attainment 93.2

2. Emphasize cost improvements by posting charts for each product showing target and actual performance.

Results: Done.

D. Process Improvements

1. Maintain technical effort on process improvements of 45%.

Results: Attained 56.2%

2. Develop process improvement plans for:

a) Biphenyl
b) Aroclor
c) Chlorine

Results: a) Issued 8/26/65

b) Rough draft 11/1/65 - revised January 1966, ready for typing.

c) Issued 3/16/65

II. Employ and train manpower for growth of plant and to effect manufacturing cost improvement

A. Personnel

1. Hire personnel to fill manning chart

Results: As of January 1 - Interview Record

	Grad.	Exp.	Offers	Acc.	Pending	Open
Ch.E.	15	9	16	3	5	2
Chem.	1	2	2	2	0	0
E.E.	2	0	2	1	0	0

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2. Develop training program to fulfill department needs. Program to include training seminars, educational trips, participation in plant economics course.

   Results: Done.

3. TSD personnel to develop personal objectives for self-improvement and job objectives. To be reviewed quarterly.

   Results: Partially accomplished. Three men developed personal objectives.

4. Establish job specifications for each job.

   Results: Done.

5. Revise job description for Chemical Engineer to establish separate description for B - D and Senior level engineers.

   Results: 75% complete. Rough drafts are complete and need to be typed for issue.

B. Function

1. Complete and issue TSD Guidelines.

   Results: 5 of 20 proposed Guidelines are issued. New binders are in use.

2. Discuss TSD Function with manufacturing groups.

   Results: Done.

3. Relocate department to improved facilities and/or develop plan to upgrade existing facility.

   Results: a) New building under construction.

   b) Research laboratory rebuilt.

4. Develop three ideas to improve effectiveness of TSD.

   Results: Done.

   1. Initiated use of Project Control Book.

   2. Monitor and emphasize actual savings vs. target.

   3. Guideline for closing jobs. Final report and closing form to confirm savings and insure job completion.

   4. Requested Purchasing to supply purchase orders to Engineer as simplification of follow-up.

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5. Arranged with F. O. Rogers for TSD to supply priority listing of open TSD projects one week prior to Engineering Planning Meeting so he can improve scheduling and maintain proper emphasis.

6. Issued Guideline for drawing reviews to prevent unusual delays.

7. Routinized program to establish and communicate drafting priorities. Engineers meet once per month after Staff Meeting to establish priority list.

8. Decided to set up bimonthly training program for TSD Engineers

L. C. Fuhrmeister

LCF:kd
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