COMPANY CONFIDENTIAL

Monsanto

Anniston Plant

TECHNICAL SERVICES DEPARTMENT

MONTHLY REPORT

Anniston

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W. K. Johnson
C. F. Luecke
W. R. Richard
W. R. Robirds
C. W. Roos
J. R. Savage
J. E. Smith
J. A. Stephens

South Second St.

P. O. DeGarmo

Other Locations

A. H. Forsten - Alvin, Texas

D. W. Jackson - W.G.K.

Summary

JANUARY 1971

Specialty Products

Liquid Hydrogen supply was installed to enable HB-40 to operate when the biphenyl tubular units are down due to natural gas curtailment. Cost is $0.75 per lb. of hydrogen or $4.00 per cwt of HB-40 made from this hydrogen.

The third generation Polyphenyl experimental reactor designed for three point promoter injection is complete and starting date of 3-point injection experiment is 2-4-71. This work is directed toward measuring the accumulative effect of cumene on biphenyl conversion.

Plant distilled Santowax Q and hydrogenated it to HQ-40 for market product testing. Hydrogenation cycle time is double that of HB-40.

Held up design work on low color Solid Aroclor 5460 after problems in plant during third batch. Laboratory work to prevent smoke evolution that occurred in the still has led to a revised procedure which will be used in another low color run scheduled for February 17.

Produced one batch of Solid Aroclor 5068 in plant without anticipated problems from free chlorine in the off-gas. Low chlorine feed rate and addition of extra catalyst (four times normal) were probably responsible for the reduced free chlorine.

Statistical correlations on Aroclor 5060 chlorinations have established that density is an adequate substitute for softening point as a finishing control. Evidence of a continuing drift in density gauges was found. Study will be continued on a control system for Aroclor 5460 based on density chlorination control.

DSW 015014

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HB-40 Expansion completion was taken over by plant forces. All outside steel was installed with inside work remaining. Final wrap-up of job will be accomplished in the first quarter. Oval gear motor for Santowax charging problem appears to be due to high operating temperature.

A PR&D report detailing PCB removal by sand and carbon filtration was issued on 1-15-71. The carbon adsorption studies of the Aroclor sump effluent have been completed after three months of continuous operation. PCB effluent level continued to be less than 10 ppb at the end of the first of four 5-ft. columns when the work was terminated. The experimental data has been forwarded to the Monsanto vendor (Calgon Corporation) for development of scale-up factors. Installation of the reactor-clarifier facilities is complete and start of studies to evaluate PCB removal by powdered adsorbant addition followed by flocculation-clarification removal of solids is underway.

Completed asphalt liner for revised No. 1 limestone pit. Return to service is targeted for 2/22 unless weather delays final acid proofing.

Agricultural Division

Group plans were revised to reflect two Process Engineers' work load.

Program developed for Ethyl PCT quality improvement to meet Geigy requirements and increase sales potential.

Parathion plant started up week of January 18.

PR&D studies on the recycle of filtered organic residue from 96% chlorinated Methyl Intermediate into the next thio acid charge were begun again after approximately 6 weeks delay. Work is directed toward full evaluation of this possible process.

Quality Control

The Plant Quality Score was 89.8, up 3.3 from December, with a YTD score of 89.8 against a target of 95.0.

Pollution Control

The remainder of the samples for the carbon treatment and sand filtration studies were completed in January. Approximately 50% of the fish samples collected in December have been started. Monsanto was mentioned in a newspaper article in January (Oxford Sun - January 20, 1971). This article was complimentary of Monsanto as being an area industry which was active in its anti-pollution efforts.

:kd

J. C. Landwehr

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PLANT LABORATORIES

ANALYTICAL AND QUALITY CONTROL - S. O. Kemp

Complaint Report

Quality

Number	Material	Customer	Reason
NY 1-P (197)	Aroclor 5460	American Mineral Spirits	(see below)

(50 lb. bags weighing 52 to 53 lbs. is contrary to their precise formulation).

YTD Quality Complaints/100 Shipments 0.35

Target 0.20

COMMUNITY RELATIONS, PERSONNEL, RECRUITING AND DEVELOPMENT

Community Relations

1. J. C. Landwehr attended the AIA meeting in Birmingham, Alabama on January 15. (Air & Water Sub Committee)

Personnel Development

1. Dave Dixon, Co-op from Georgia Tech, reported January 4 for the winter working quarter. He will be working under the direction of W. B. Dunlap.

2. J. T. Bell visited St. Louis for a meeting concerning "Division Analytical Operations" on January 18-19.

3. Plant Safety Meeting was conducted on January 21-22 & 28. The subject of the meeting was USE OF PROPER TOOLS AND EQUIPMENT. The program was planned and conducted by the January 1971 Safety Committee: Jerre Ford, Tom Lackey, Nolan Sims and Vince Haupt, Chairman.

4. W. E. Voss transferred into TSD from Production as a Supervising Engineer for PNP, P_2S_5 and Parathion.

5. L. L. Faulkner also transferred from Production as a Senior Engineer working in Biphenyl-Santowax product area.

Visitors

1. J. R. Savage visited the plant January 18th for review of Technical Program.

2. Messrs. R. M. Kountz and R. L. Neary visited plant on January 27, concerning "Santowax Expansion."

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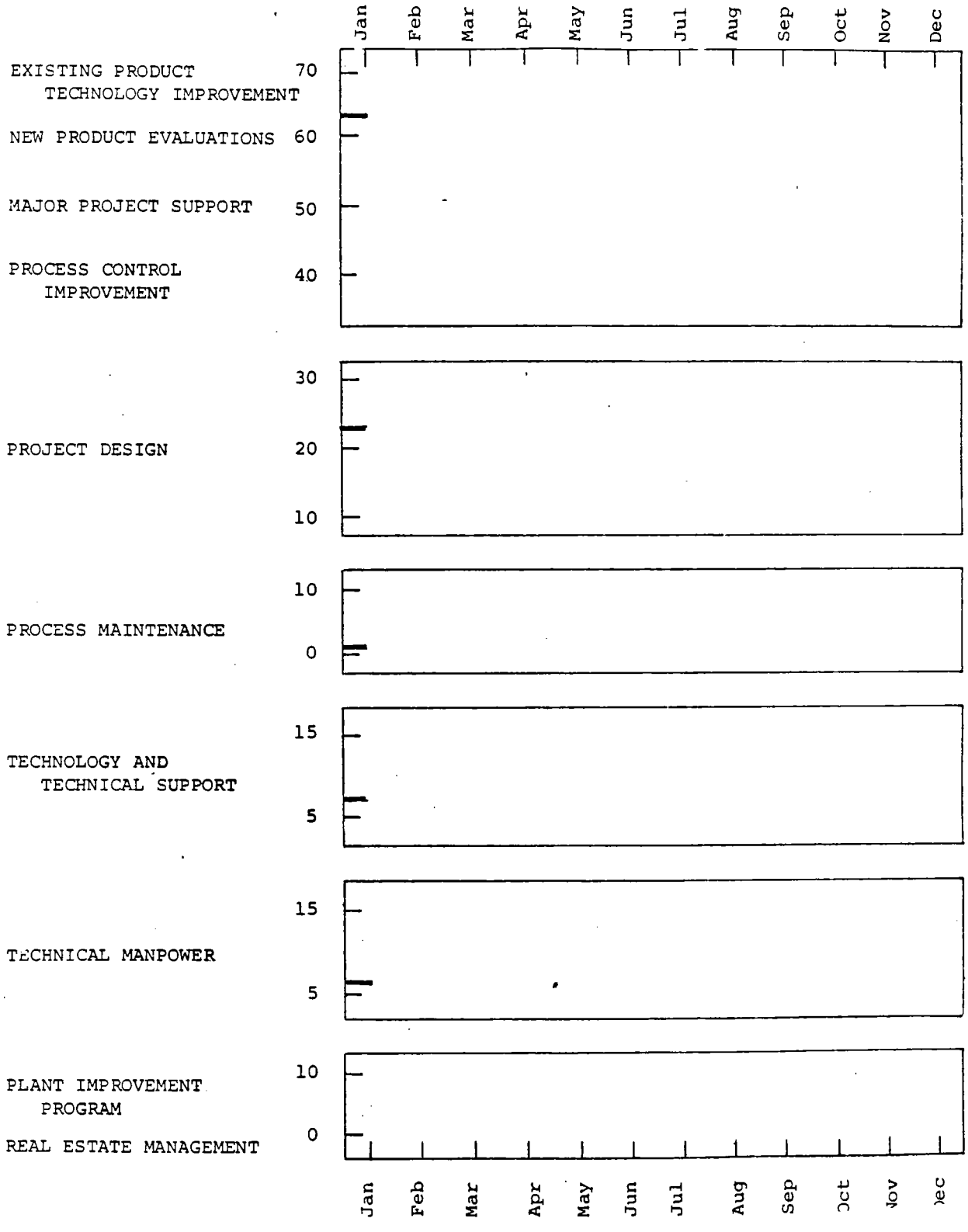
1971 DISTRIBUTION OF TIME BY TECHNICAL SERVICE



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