COMPANY CONFIDENTIAL

Pile

Monsanto

Anniston Plant

TECHNICAL SERVICES DEPARTMENT

MONTHLY REPORT

Anniston

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W. R. Robirds*
C. W. Roos
J. R. Savage*
J. E. Smith
J. A. Stephens*

South Second St.

P. O. DeGarmo*

*PR&D Mid-Month Report Attached

Other Locations

A. H. Forsten - Alvin, Texas

G. A. Hippe* - W.G.K.

W. L. Smull - Texas City

Summary

JUNE 1971

Specialty Products

Cumene injection to No. 1 Polyphenyl Tubular Unit was successfully started up and has increased capacity by 30% over the same tube on acetone promoter alone. This is better than the desired 20% and matches the best PR&D laboratory results. Cumene injection on both tubes will meet the latest product forecast through 1973. Aroclor 1242 made by PR&D from cumene biphenyl has normal stabilities (HST = 0.11, MS = 0.12, TCC = 0.20, and Free Cl^- = 0.009). Because of the magnitude of capacity increase from using cumene injection on both tubes potential capacity problems are expected in cooling tower water, natural gas supply, hydrogen compressors and hydrogen purification unit. An overall cumene project scope targeted for 1 Sept. '71 will define all debottlenecking steps needed to take advantage of cumene injection. A preliminary test of cumene injection without acetone in the feed indicates enough capacity to meet next year's forecast demand. Further testing will be done after Aug. '71. Complete replacement of acetone with cumene has advantages of reducing oxygen (and carbon monoxide) and eliminating acetic acid.

A progress report recommending a process for making low color Aroclor 5460 in the plant was issued in early June. Project cost is estimated at $32.7M NFC with $8.6M expense at a $1.72/cwt for 1M lbs.

Santowax Expansion (CEA 2472) design moving at a rapid clip. Flow sheets have all been issued on first approval and some equipment including the still column is on order. The project has not been submitted as yet; however, the package is being prepared for July approval.

PR&D work on PCB Removal by Flocculation Clarification is now 98% complete with good results. The work now planned, including evaluation of a Monsanto developed polyelectrolite, is targeted for completion by 7-7-71. A progress report covering experimental results is scheduled to be completed by 7-15-71

DSW 551595

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Construction was begun on the Standby Propane Fuel System. Foundations for the 60,000 gallon propane storage tank have been completed and electrical work is well underway. The vaporizer, blender and associated equipment were scheduled for shipment on June 30.

Electrical and instrument design for Improving Hydrogen Utilization in HB-40 is 25% complete.

Ag Division

Additional work on the recycle of organic residue from 96% chlorinated Methyl Intermediate into the next thio acid charge is underway. A four-batch recycle using extended chlorination and distillation times showed a build-up of a small percentage of a water soluble compound. This compound is thought to be a decomposition product from the long still cycles. Additional work is underway to further develop a process which will eliminate this problem. A PR&D work plan detailing this study will be issued by 7-9-71.

Automatic steam control on #1 still continues to perform as designed. Modifications of the steam profile are being systematically made to determine if the higher yields predicted by experimental work last summer can be achieved in the one hour shorter still cycles demanded by 1971 rates.

Project (AFE 3796) was approved for winterizing Parathion Department for year around Methyl operations. Design and drafting work was initiated.

Installation of the project to provide Waste Distribution Piping (AFE 3751) for the aeration basins began late in the month.

An experimental Dorr-Clone separator was purchased to improve the ability of the waste treatment filter to remove solids from the plant effluent.

TSD manpower and capital estimates of the safety audits for the Niran and P_2S_5 Departments and waste treatment facilities show the need of $73,500 capital and one man-year of TSD time to complete recommendations.

Quality Control

The Plant Quality Score was 81.2, down 8.4 from May, with a YTD score of 87.3. The semi-annual Process Capability Report showed a general relaxation of quality control as compared to the previous six months, and with past years.

Pollution Control

Corps of Engineers permit application was completed and filed with the Mobile district office and the Alabama Water Improvement Commission during June.

J. C. Landwehr

/dp

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PLANT LABORATORIES

ANALYTICAL AND QUALITY CONTROL - S. O. Kemp

Complaint Report

Quality

No.	Material	Customer	Reason
Intl.-6-P	A-5460	Monsanto Europe	Low viscosity

YTD Quality Complaints/100 Shipments 0.30

Target 0.20

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COMMUNITY RELATIONS, PERSONNEL, RECRUITING AND DEVELOPMENT

Personnel

1. S. O. Kemp attended a course covering the maintenance of chromatographs at Hewlett-Packard in Atlanta the week of 6-13-71.

2. J. T. Bell and E. G. Wright attended A.I.A. meetings in Birmingham, concerned with pending air and water pollution control legislation, 6-14 and 6-21.

3. Reviewed 1972 Technical Service Department budgets with Director of Manufacturing and gained approval on 6-28.

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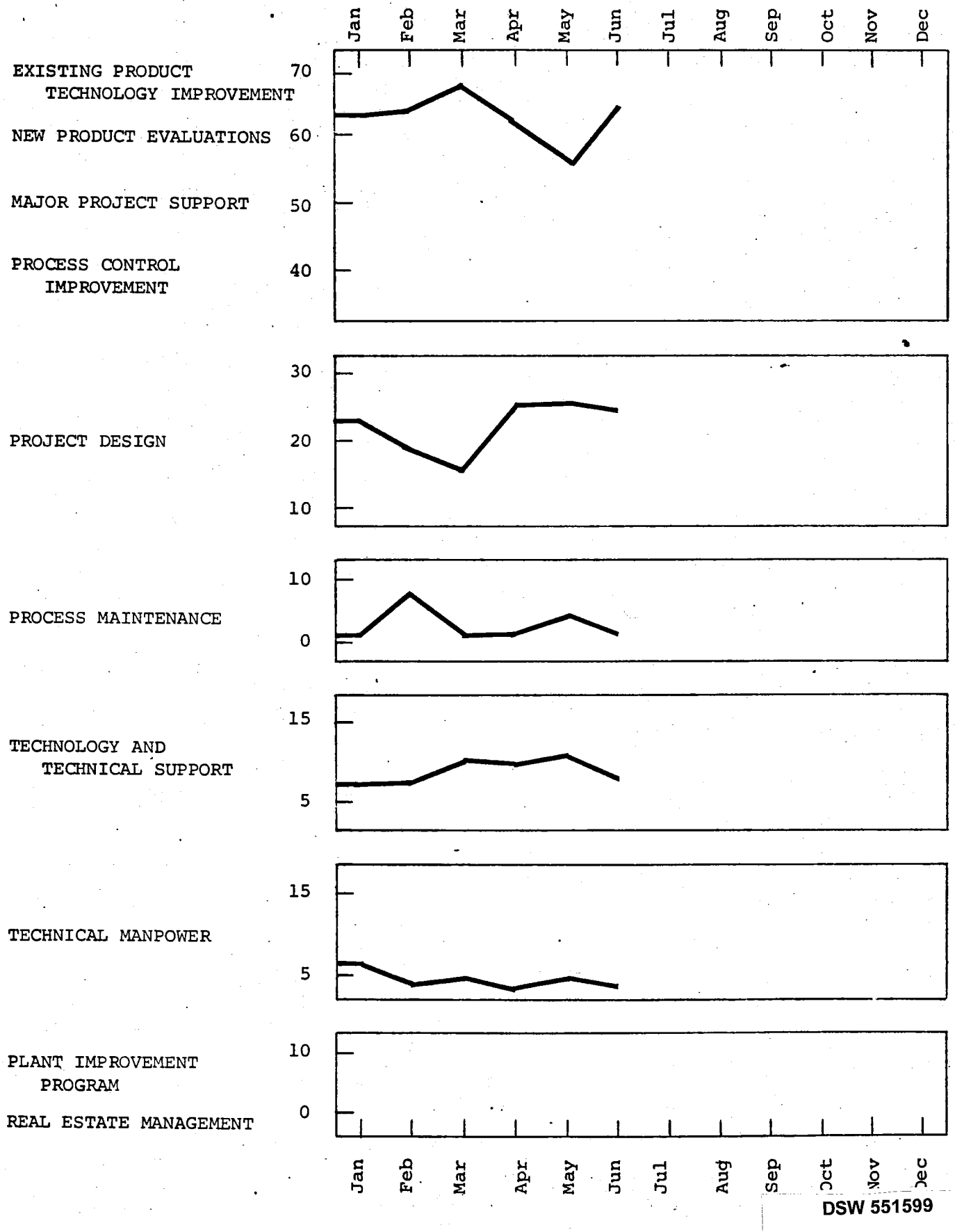
1971 DISTRIBUTION OF TIME BY TECHNICAL SERVICE



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