

PROGRESS REPORT

NITRO PLANT TECHNICAL SERVICES

2002

2002

February 21, 1969

SITE PLANT

DESIGN

DES. OFFICE

STATION

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REPORTED BY

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TITLE

REDUCTION OF TDD IN NaTCP - BUILDING 92

PROBLEM

Reduce formation of TDD in 2,4,5-T plant NaTCP autoclaves, and increase conversion of TCB to NaTCP.

CONCERN

A brief plant trial run has been completed in an attempt to support the results of an Agricultural Research NaTCP autoclave study. The Research study indicated a reduction in formation of TDD (a chloro-nogen) from 40 ppm (1968 experience) to 5 - 7 ppm, with a concurrent reduction in TCA (reaction intermediate) content from 1% to trace.

The trial run showed a reduction in TDD content from 10.5 ppm to 3.05 ppm. The lower than expected TDD content is believed due to improved raw material charge control because of the new autoclave pressure charging system. TCA was reduced from 0.63% to 0.19%, according to analysis of three representative batches.

A 30-day plant trial run will begin on February 24 to complete the demonstration.

John Strum 001462

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