

E. I. DU PONT DE NEMOURS & COMPANY

ENGINEERING DEPARTMENT

To: **G. E. GILL**

In reply please use subject listed below.

Date: **JUNE 4, 1965**

C.C. **E. HOOTON, JR.
J. W. MC CARLEY
R. T. PETERS**

From: **ENCO ZEISE**

Subject: **CONSTRUCTION - CHATTANOOGA
TOOL AND EQUIPMENT INSPECTIONS - Tool & Equip.**

**PLAINTIFF'S
EXHIBIT**

DUP-52

Per your request the following information has been compiled on tool and equipment inspections.

Electrical (F. B. Stacks)

1. Annually, 2064 man hours are spent on the actual inspection of electrical tools and equipment.
2. Annually, 408 man hours are spent by the electrical craft in handling their tools and equipment to inspection points.
3. (a) Twenty percent of all electrical small tool items that come to the shop for inspection require some type of repair.
(b) Welding machines require constant repair.

Carpenter, Paint, Brick (C. M. Gardner)

1. Annually, 576 man hours are spent on inspection of tools and equipment.
2. Annually, 96 man hours are spent by these crafts in handling tools and equipment to inspection points.
3. Less than 1% of items inspected require repairs.

Millwright (S. P. Elsey)

1. Annually, 512 man hours are spent on inspection by millwright craft.
2. Annually, 64 man hours are spent on handling tools and equipment to inspection points.

DUP 0918244

Millwright (Continued)

3. Fifteen percent of items inspected require some type of repair.

Labor, Cement, Truck Driver (O. E. Ayer)

1. Annually, 384 man hours are spent by the labor department on inspection of fire extinguishers.
2. No items handled to inspection point.
3. Five percent of extinguishers require some repair monthly.

Sheetmetal (W. G. Daniel)

1. No items inspected by sheetmetal crafts.
2. Annually, 1344 man hours spent handling tools and equipment to inspection points.

Insulation (C. E. Agan)

1. No items inspected by insulation craft.
2. Annually, 120 man hours spent handling tools and equipment to inspection point.

SIW, Boilermaker, PEO (E. E. Bridges)

1. (a) Annually, 840 man hours spent in inspection of tools and equipment by SIW craft.
- (b) Annually, 192 man hours spent in inspection of tools and equipment by PEO craft.
2. (a) Annually, 480 man hours spent handling tools and equipment to inspection points for SIW craft.
- (b) Annually, 96 man hours spent handling tools and equipment to inspection points for PEO craft.
3. Five percent of items inspected require some type of repair.

Ping (A. G. Gritta)

1. Annually, 1056 man hours spent on inspection of tools and equipment.

DUP 0918245

Pipe (Continued)

2. Annually, 2880 man hours spent in handling tools and equipment to inspection points.
3. Ten percent of items inspected require repair.

Summary

1. Annually, 5624 man hours are spent in formal inspections by all crafts.
2. Annually, 5488 man hours are spent in handling tools and equipment to and from inspection points.
3. Small percentage of items requiring repair at regular inspection intervals in majority of crafts would indicate that these intervals could be lengthened as follows:
 - (a) Electrical craft - monthly to quarterly
 - (b) IW inspection - quarterly from monthly
 - (c) Carpenter inspection:
 - Ladders - quarterly from monthly
 - Scaffold plank - eliminate formal inspection
 - (d) Millwright inspection - quarterly from monthly
 - (e) Pipe inspection - quarterly from bi-monthly
 - (f) PEO inspection - remain unchanged

Savings:
(Man Hours)

	<u>Inspections</u>		
	<u>Current Cost</u>	<u>New Cost</u>	<u>Savings</u>
Elec.	2,064	688	1,376
Carpenter	576	160	416
Millwright	512	171	341
Labor	384	128	256
IW	840	280	560
PEO	192	192	0
Pipe	<u>1,056</u>	<u>704</u>	<u>352</u>
Total	5,624	2,323	3,301

DUP 0918246

Handling

	<u>Current Cost</u>	<u>New Cost</u>	<u>Savings</u>
Electric	408	136	272
Carpenter	96	32	64
Millwright	64	21	43
Sheetmetal	1,344	448	896
Insulation	120	40	80
SH	460	160	320
PBO	96	96	0
Pipe	<u>2,856</u>	<u>960</u>	<u>1,920</u>
Total	5,488	1,893	3,595

Dollar Savings at \$4.17 per hour:

Inspections = 5,624 x 4.17 =	\$23,452
2,323 x 4.17 =	<u>9,687</u>

Save \$13,765

Handling = 5,488 x 4.17 =	22,885
1,893 x 4.17 =	<u>7,894</u>

Save \$14,991

Grand Total \$28,756

IE:cj

DUP 0918247