

P. Mackey



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**SAM P. WALLACE & COMPANY**  
**OF PUERTO RICO, INC.**

$$\begin{array}{r} 43.772.29 \\ 348.775 \\ \hline 392547.29 \end{array}$$

## TIME AND MATERIAL CONTRACT WITH MAXIMUM PRICE

TO: DIGITAL EQUIPMENT CORPORATION

### PROPOSAL:

On the premises located at Plant described as Building No: 4, in San German, Puerto Rico.

We herewith propose to furnish, as specified below, and subject to the General Conditions herein, all labor and material, and perform all said work in a good and workmanlike manner, for the construction, installation and completion of

Plant described as building No: 4 - Work as described in Wallace presentation of August 26, 1971, in the office of Digital Equipment Corporation in Maynard, Mass. In addition, the contract will include the following items.

1. 4 - Fire Hose Station inside of building.
2. 4 - Air Dampers for A/C Units.
3. 12 - Air Plenums with double deflections grilles - See attached Exhibit A.

### CONTRACT AMOUNT:

The work described above shall be performed for the sum of \$ 348,775.00 , designated the maximum price.

The cost of the work shall be the sum of the following:

- a) The actual cost of material, equipment, labor, and such other cost items applicable to the work, as hereinafter defined and qualified, plus 12% to cover overhead, plus 10% of the aggregate to cover profit.
- b) The actual cost of all sub-contracts, plus 5% to cover overhead.

In the event the actual cost of the work is less than the maximum price, the Buyer will pay to the contractor 40% of the difference between the maximum price and the actual cost, in addition to the costs as defined in (a) and (b) above, as additional compensation.

In the event the actual cost of the work exceeds the maximum price, such excess cost shall be borne by the contractor.

### PAYMENTS:

Terms of payment shall be as follows: Contractor will present invoice on or about the 15th of each month for approval. Buyer will pay Contractor 15 days after presentation of Invoices. No retainage will be held from the Contractor.

## COSTS:

Costs shall be defined as follows:

- a) Actual cost of all material and equipment, including all trade discounts, but excluding cash discounts.
- b) Cost of all labor incorporated, field supervision of general superintendent, and travel expense in accordance with Union agreements.
- c) Rigging, erecting, and machinery moving charges.
- d) Cost of all permit and inspection fees for which the contractor is liable in conjunction with the work performed.
- e) Cost of all royalties.
- f) Federal, state, municipal or other taxes directly chargeable to the work which the contractor is legally obligated to pay and does pay in connection with this contract.
- g) Cost of shanties, including transportation thereof, at rates approved by contractor and buyer.
- h) Cost of welding consumables such as oxygen, welding rod, solder, acetylene, demurrage on cylinders, etc.
- i) Cost of electric power and gas and oil for contractor's equipment on job.
- j) Rental charges for all rented tools and equipment.
- k) Cost of scaffolding.
- l) Cost of living expense for union men, in accordance with Area Agreement.
- m) Traveling, transportation, and living expenses of contractor's expeditors engaged in expediting the production and transportation of materials and equipment, if prior authorization has been given by Buyer, and all long distance telephone calls or telegraph service for this purpose.
- n) Cost of "shop" and "as-built" drawings as required.
- o) Salary of personnel employed at field office.
- p) Cost of special insurance as required.
- q) Cost of payment and performance bonds as required.
- r) Service reserve.
- s) Cost of testing and adjusting system.

## GENERAL CONDITIONS

1. All materials, equipment and workmanship furnished under this contract shall be guaranteed by the Seller against defects and Seller agrees to replace or repair any defective material or equipment, and any defective workmanship not caused by ordinary wear and tear or to improper use or maintenance within one (1) year from date of completion of the contract. Seller further agrees to replace any refrigerant lost during that period, caused by defects in the installation, and not due to improper use or maintenance. In no event shall Seller be liable for consequential damages.
2. The work to be furnished under this contract shall be guaranteed by Seller to produce capacities, meet design limitations and to function (1) as called for in plans, specifications and addenda (2) as herein set forth or (3) as published by the manufacturer for equipment involved. In the event the foregoing requirements are not met, Seller's liability shall be limited to remedying any deficiency without expense to the Buyer. This guarantee shall not apply in any case in which the Buyer specifies the type of equipment to be used.
3. Seller shall not be held responsible or liable for any loss, damage, detention or delay caused by accidents, strikes, lockouts or by any other cause which is unavoidable or beyond Seller's control.
4. Buyer shall provide adequate fire insurance to protect the interest of the Seller against loss or damage to equipment, materials, and tools on the job site.
5. Seller shall have the right to bill the Buyer for the amount of material when delivered on the job site, even though not actually installed. In the event that material is ready for delivery and installation, but Buyer is unable to receive same, Seller shall have the right to bill Buyer for the amount of the material, including storage and insurance costs incurred by the Seller, which Buyer agrees to pay.
6. The Buyer shall be responsible for identifying and disclosing to the Seller all concealed piping, fixtures, wiring or other equipment or conditions which might be damaged, cause damage or otherwise affect or be affected by the work. In the event of damage, or a claim of damage without disclosure being given, the Buyer shall waive and hold the Seller harmless against all claims, suits, judgments and awards resulting therefrom.
7. Seller will furnish all necessary lien waivers, affidavits and other documents required to keep the Buyer's premises free from liens or claims for liens of all materialmen, subcontractors or laborers as payments are made under this contract.
8. The price or prices set forth in this contract shall be increased in an amount or amounts equal to the tax or taxes which may be assessed on the equipment or materials supplied hereunder or which may be due or become due, or which may be required to be paid with respect to this contract as a result of any excise, sales, use, occupation or similar tax not now in effect but hereafter imposed or made effective by the United States Government or any state or local government.
9. Buyer shall be responsible for structural ability of the premises to contain the equipment in the manner and location specified in the contract or shown on drawings, and Seller shall not be liable for any failure, or damage resulting from such failure, of premises, due to such structural deficiency.
10. This proposal, when signed and accepted by the Buyer, and approved by an authorized representative of the Seller, shall constitute exclusively the contract between the parties, and all prior representations or agreements, whether written or verbal, not incorporated herein, are superseded.
11. All changes, alterations or omissions to be made in the work as specified shall be performed in accordance with a written agreement between Buyer and Seller, which shall define the amount of any increase or credit in price adjustment. Neither party to this contract shall assign this contract or monies due hereunder without the prior written consent of the other.
12. Unless otherwise agreed, this contract shall be performed during the regular working days consisting of 8 hours per day, 5 days per week. Should the Buyer request overtime, then the Maximum Contract Price herein shall be increased to the extent of such work at the standard overtime charges, including insurance, taxes, overhead and profit.
13. If the scope of work contemplated herein is materially or substantially increased the Maximum Contract Price provided herein shall be increased accordingly.
14. Additive change orders will be cost plus 12% to cover overhead and 10% of the aggregate to cover profit.

t) Freight and delivery charges, including cartage, use of contractor's trucks, at \$ 90.00..... per trip and charges for truck rental.

u) Use of contractor's equipment at the following daily rates per item:

Item	See attached Rental Guide - Marked Exhibit B	Daily Rental	Monthly Rental
.....	Electric Welding Machine and Cable	.....	.....
.....	Oxygen-Acetylene Cutting and Welding Torch and Accessories	.....	.....
.....	Electric Metal Saw	.....	.....
.....	Pipe Machine	.....	.....
.....	Pipe Machine	.....	.....
.....	Stock with Dies - 2½" to 4" and Universal Joints	.....	.....
.....	Diamond Core Boring Machine for Concrete Floor	.....	.....
.....	Chain Block	.....	.....

v) Cost of expendable tools, at the rate of 0% of total labor cost.

w) A sum equal to 33% of item (b) to cover the following: - See attached Exhibit C for breakdown of each item.

1. Workmen's Compensation.
2. Occupational Diseases.
3. Public Liability.
4. Property Damage.
5. State Unemployment.
6. Federal Unemployment.
7. Old Age Benefit.
8. Pipefitters Welfare and Retirement Fund payments.
9. Association Dues.

x) Costs of protection of equipment, materials, and tools against loss or damage.

y) Costs of all sub-contracts.

z) Cost of Engineering

All terms and conditions as set forth on reverse side are a part of this proposal.

This proposal is subject to acceptance within 30 days from date hereof by the Buyer, otherwise at our option it becomes null and void.

ACCEPTED: Lawrence Beaupre

By Digital Equip. Corp. Title

Date: .....

SAM P. WALLACE & CO. OF PUERTO RICO, INC.

Company Name

By Alfonso A. Rodriguez Title

Alfonso A. Rodriguez - President



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

EXHIBIT A

SAM P. WALLACE PROPOSAL

Air Piping ✓	-	\$795.00
A/C System ✓	-	75,000.00
Sprinkler ✓	-	102,000.00
Prime Contractor's Mark- up, etc.	-	19,000.00
		<u>196,795.00</u>
Add 4 - Air Dampers		900.00
Add 12 - Plenums with grilles	-	-0-
Add for 4 Additional Fire Hose Station at \$300.00 each	-	<u>1,200.00</u>
SAM P. WALLACE - TOTAL	-	\$198,895.00
LORD - TOTAL	-	<u>149,880.00</u>
TOTAL CONTRACT	-	<u><u>\$348,775.00</u></u>

Oct- Lord electric relocation  
of 4160 line + 38KV - Sub station - add 5595.00  
PRWRA - 38KV line 29,861.00

INTER-OFFICE MEMORANDUM

DATE: June 3, 1971

SUBJECT: Fringe, Tax and Insurance on Labor

FROM: Alfonso A. Rodríguez

TO: All Concerned

Due to the new Mandatory Decree No: 44 from the Inular Minimum Wage Board, which covers paid vacations for the Construction Industry, the following is the new breakdown for Fringes, Tax and Insurance on Labor. Effective as of April 20, 1971, (date decree became effective), this amount must be included in estimates, change orders, etc.

Fringe Benefits and Insurance Labor

Social Security-----	5.2
Unemployment Insurance (State and Federal)-----	3.2
El Fondo del Seguro-----	6.05
Plumbing - Group No: 5183 (Workmen's Compensation)	
Workers Bodily Injury and Property Damage-----	1.2
Disability Insurance (Law No: 139)-----	.5
Christmas Bonus (Union Agreement)-----	2.0
Christmas Bonus (Government Law)-----	2.0
Union Paid Holiday (7 per year)-----	2.8
Union Welfare Plan-----	4.61
(16.00 per month per man)	
Vacation Regulation (Decree #44)-----	5.44
	<u>33.00</u>

Note: Will vary according to work classification and work risk.

cc: All Executive Staff

Related Companies

Mr. René Aponte - Mr. Jaime Espasas

Mr. Carlos Pacheco - Mr. Santiago Albanese

N.C.A. of Puerto Rico

*Al*



# TOOL RENTAL GUIDE

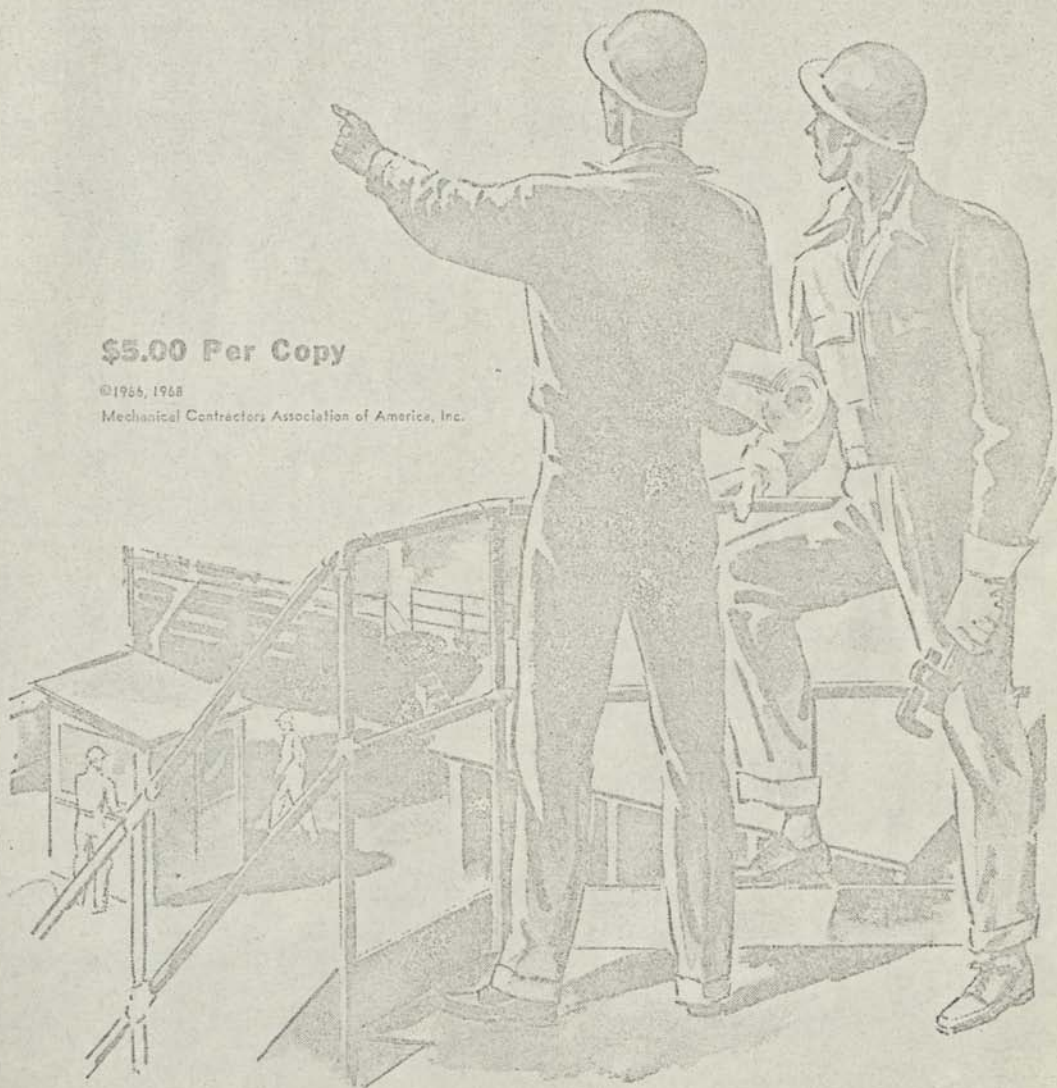
*Prepared by:*

Mechanical Contractors Association of America, Inc.

**\$5.00 Per Copy**

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Mechanical Contractors Association of America, Inc.





**Mechanical Contractors Association of America, Inc.**

2 Pennsylvania Plaza, Suite 1950  
New York, N. Y. 10001



# MANAGEMENT METHODS COMMITTEE

## TOOL RENTAL GUIDE

### FOREWORD

Early in 1965 the Management Methods Committee circulated a Tool Questionnaire. The questionnaire asked our members many questions regarding the cost, handling, accounting and policies in respect to construction tools.

From the information supplied by our members the committee developed the Tool Rental Guide.

The Tool Rental Guide consists of three sections. Section I contains a listing of rental rates for tools and equipment commonly used by mechanical contractors. Section II contains a listing of "Typical Small Tools". Section III contains a listing of "Typical Expendable Items". In Section I the rental rates shown are a composite of rates used by mechanical contractors in all parts of the United States. This section is issued as a guide to MCAA members. The rates shown are not to be considered as recommended rates. They should be adjusted by each contractor, who chooses to use them, to reflect local conditions and trade practices in his particular area.

The following items of costs were not considered in formulating the rental rates used:

1. Operators or other personnel necessary to operate a particular tool or machine.
2. Fuel or other energy costs to operate a tool or machine.
3. Transportation to or from a jobsite from a contractors' home office or warehouse.

4. Cost of "hook-up" or other necessary preparatory work performed before a tool or machine could be made operative.
5. Costs of dies, bits, blades, welding rod, gas and other appurtenances normally consumed in the operation of a tool or machine.
6. Extraordinary wear and tear, such as extreme dust or climatic conditions.

The following elements of cost were included in developing these rates:

1. Normal wear and tear
2. Depreciation
3. Maintenance

The Management Methods Committee had hoped to develop a formula that a contractor could use to establish a rental rate for a tool not listed in the "Tool Rental Guide". It was unable to do this. Each tool is different, some wear out faster than others; each has frequency of repair rates different than the other; hand held tools wear out faster than stationary ones; the rate of wear is generally inverse as related to size; the more moving parts, the greater the wear. All these points should be closely considered in developing the rental rate for a particular tool in addition to the regular cost factors such as original cost and rate of depreciation.

The committee would also like to point out that these rental rates can be used by a contractor for internal accounting purposes as well as the external use with customers.

## SECTION II

### "Typical Small Tools"

Section II of the guide contains a listing of "Typical Small Tools". Typical Small Tools are defined as tools which are generally non-powered, relatively small in size, low in cost and not depreciable but rather expendable.

However, these items are a definite item of cost on a job and it is the usual practice in our industry to charge these items to the cost of a job on the basis of a set percentage of the labor cost of the project.

## SECTION III

### "Typical Expendable Items"

Section III of the guide contains a listing of items generally classified as "Typical Expendable Items". Typical Expendable Items are defined as tools, appurtenances, fuels and supplies normally consumed in the operation of a tool or machine or in course of a particular job.

It is the general practice of our industry to charge these items of cost to a job as a part of the material cost of the job or as items of direct job expense.

As stated before the information contained in this publication has been compiled from information submitted by mechanical contractors in all parts of the United States. It is intended to be used as a guide to MCAA members. The rates and information shown are not to be considered as recommended by MCAA. These rates, lists, and other observations should be adjusted by each contractor, who chooses to use them, to reflect local conditions and trade practices in his particular area.

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## TYPE OF EQUIPMENT

## RENTAL RATES

A.	AIR COMPRESSORS	Day	Week	Month
	Compressor, Air, Portable (One and two stages, Water, Oil or Air Cooled)			
21	- 36 cfm gas powered	9.75	28.50	80.00
37	- 60 cfm gas powered	13.00	48.00	140.00
61	- 85 cfm gas powered	15.00	50.00	145.00
86	- 105 cfm gas powered	20.00	65.00	185.00
106	- 125 cfm gas powered	24.50	82.00	245.00
126	- 160 cfm gas powered	25.00	85.00	250.00
161	- 185 cfm gas powered	32.75	109.00	333.00
186	- 210 cfm gas powered	34.00	112.00	340.00
211	- 250 cfm gas powered	35.00	115.00	347.00
251	- 315 cfm gas powered	44.50	146.00	444.00
316	- 365 cfm gas powered	60.00	177.00	525.00
366	- 500 cfm gas powered	65.00	252.00	570.00
316	- 365 cfm diesel powered	62.00	185.00	550.00
365	- 500 cfm diesel powered	80.00	260.00	750.00
501	- 600 cfm diesel powered	94.50	283.50	850.00
600	- 900 cfm diesel powered	128.00	383.50	1,150.00
901	- 1200 cfm diesel powered	180.00	541.00	1,610.00
B.	BENDER, Pipe Hydraulic			
	1/2" through 3"	4.00	15.00	40.00
	3" through 5"	5.00	17.00	50.00
C.	BEVELING MACHINE			
	1" to 4"	2.00	5.50	16.00
	4" to 8"	3.00	9.00	27.00
	8" to 12"	4.00	12.00	36.00
	14" to 20"	7.50	22.00	66.00



## TYPE OF EQUIPMENT

## RENTAL RATES

D. BRAKES, Sheet Metal, Bending		Day	Week	Month
4' length	12 ga.	7.00	20.00	60.00
4' length	14 ga.	7.00	20.00	60.00
4' length	16 ga.	7.00	20.00	60.00
4' length	18 ga.	7.00	20.00	60.00
6' length	12 ga.	11.00	33.00	98.00
6' length	14 ga.	11.00	33.00	98.00
6' length	16 ga.	11.00	33.00	98.00
6' length	18 ga.	11.00	33.00	98.00
8' length	12 ga.	13.00	38.00	113.00
8' length	14 ga.	13.00	38.00	113.00
8' length	16 ga.	13.00	38.00	113.00
8' length	18 ga.	13.00	38.00	113.00
E. BREAKERS, Pavement, Air				
Under 50# (light)		5.00	16.00	45.00
50# to 70# (medium)		6.00	18.00	50.00
70# and over (heavy)		6.50	19.00	54.00
F. CLEANERS, Vacuum and Steam				
1. Cleaners, Vacuum, Industrial, Electric Powered				
All Sizes		7.00	25.00	70.00
2. Cleaners, Steam (Stationary and Portable), Steam Vapor				
80/120 gals. per hr. 60 to 120 PSI		15.00	50.00	140.00
120/200 gals. per hr. 60 to 150 PSI		22.00	66.00	185.00
G. COM-ALONGS, Chain and Cable Type				
1/2 ton capacity		1.00	3.00	8.00
3/4 ton capacity		2.00	5.00	15.00
1 ton capacity		2.50	7.00	21.00

TYPE OF EQUIPMENT	RENTAL RATES		
	Day	Week	Month
2. Bolt			
36" length	.25	.75	2.20
42" length	.35	1.05	3.10
3. Soil Pipe			
2" through 6" Mechanical	.90	2.65	7.95
4" through 12" Hydraulic	4.15	12.50	37.50
4" through 18" Hydraulic	6.50	19.50	58.50
4. Angle Iron			
2" x 2" x 1/4" capacity	1.50	2.00	6.00
5. Abrasive Machine, Metal Cutting			
18", 3HP, Hi Speed	5.55	16.65	50.00

K. CRANES

1. Crawler - Gasoline			
1.1/2 ton	55.00	170.00	520.00
5 ton	66.35	200.00	609.00
7.1/2 ton	95.25	286.00	895.00
10 ton	118.00	370.00	1,149.00
15 ton	125.00	394.00	1,264.00
20 ton	150.00	485.00	1,475.00
25 ton	195.00	607.00	1,878.00
2. Truck Mounted - Gasoline			
1.1/2 ton	40.00	125.00	380.00
5 ton	82.00	255.00	778.00
7.1/2 ton	119.00	371.00	1,135.00
10 ton	150.00	464.00	1,401.00
15 ton	178.00	562.00	1,766.00
20 ton	225.00	675.00	2,025.00
25 ton	275.00	825.00	2,475.00

## TYPE OF EQUIPMENT

## RENTAL RATES

		Day	Week	Month
G.	COM-ALONGS, Chain and Cable Type			
	1.1/2 ton capacity	3.00	7.50	23.00
	2 ton capacity	3.50	8.00	24.50
	4 ton capacity	4.00	8.50	26.00
	6 ton capacity	5.00	12.00	34.00
H.	COMPACTION EQUIPMENT			
	1. Compactors, Rammer Type			
	Small sizes	20.00	60.00	180.00
	Large sizes	30.00	90.00	270.00
	2. Compactors, Plate Type			
	Small sizes	20.00	60.00	180.00
	Large sizes	30.00	90.00	270.00
	3. Tampers, Air	5.00	15.00	45.00
I.	COPPER CLEANING MACHINE, Electric	3.50	10.00	30.00
	Copper Cutting Machine, Electric	3.50	10.00	30.00
J.	CUTTERS, Pipe, Conduit, Bolt, Soil Pipe, and Angle Iron			
	1. Pipe and Conduit			
	1/8" to 1.1/4" capacity	.15	.40	1.15
	1/2" to 2" capacity	.20	.55	1.65
	2.1/2" to 4" capacity	.50	1.45	4.30
	4" to 6" capacity	.70	2.00	5.95

## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
L. DRILLS, Air, Electric Core and Auger			
1. Drills, Hand, Electric			
1/4" Chuck capacity	(Covered by Small Tools, Section		
3/8" Chuck capacity	II, Page 22 in this book)		
1/2" Chuck capacity	2.50	8.00	18.00
5/8" Chuck capacity	4.50	13.50	40.00
3/4" Chuck capacity	4.50	13.50	40.00
7/8" Chuck capacity	5.00	14.50	43.00
1" Chuck capacity	5.50	16.00	50.00
2. Drills, Diamond Core, Electric Portable with mechanical hold- down (Less bit)			
1.1/3 HP 1" to 6.1/2" capacity	12.00	39.00	115.00
2.1/2 HP 1" to 10" capacity	16.00	50.00	161.00
3. Drill Press, Electric			
1/2" Chuck capacity bench mounted	2.50	7.00	20.50
1/2" Chuck capacity floor mounted	2.50	7.00	20.50
4. Drills, Rock, Air, Hand Held			
A. Utility - 25# to 50#	5.00	15.00	45.00
- 50# to 65#	6.50	19.00	57.00
B. Rock Drill Steels 7/8" Shank			
12" to 24" long	.75	1.40	3.00
24" to 48" long	.95	1.70	3.60
C. Shanks, 1"			
2' to 6'	1.15	2.30	5.00
6' to 10'	1.50	3.00	6.50
D. Rock Drill Adaptors			
All sizes	1.00	2.00	5.00

M.	FASTENING TOOLS, Power Actuated	RENTAL RATES		
		Day	Week	Month
	1/4" barrel & gun	2.60	8.00	24.00
	3/8" barrel & gun	2.60	8.00	24.00
	1/2" barrel & gun	4.50	13.00	40.00

Tool "charge" is an expendable cost - see Section III, Page 23 of this book

N.	GANG BOX 6 x 4 x 4	3.00	9.00	27.00
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O. GENERATOR SETS

	5 KW to 7.5 KW gas driven	7.00	26.00	60.00
	7.5 KW to 10 KW gas driven	12.50	50.00	150.00
	10 KW to 15 KW gas driven	20.00	65.00	195.00
	15 KW to 20 KW gas driven	33.00	85.00	240.00

P. GRINDERS, Air, Portable, Bench;  
Electric - Portable, Bench

1.	Grinder, Air, Hand Held, all sizes, without grinding wheels	5.50	16.50	50.00
2.	Grinder, Electric			
	6" Bench type	1.00	2.00	6.00
	8" Bench type	1.25	2.50	7.00
	10" Bench type	1.75	5.00	15.00
	All sizes, portable	6.00	17.00	50.00

## TYPE OF EQUIPMENT

## RENTAL RATES

Q.	HAMMERS Air and Electric	Day	Week	Month
1.	Air Hammers			
	Chippers	4.50	12.00	34.00
	Rivet Hammer - Rivet Buster	5.00	15.00	45.00
	Sheeting Drivers	8.00	25.00	70.00
2.	Electric Hammers			
	to 3/4" capacity	6.75	21.00	59.00
	-3/4" to 1.1/4" capacity	7.00	21.50	62.00
	1.1/4" to 1.3/4" capacity	9.00	27.00	77.00
	1.3/4" to 2.1/2" capacity	9.50	28.00	84.00
R.	HOIST, Electric and Chain			
1.	Chain Hoist			
	1 ton capacity with 8' lift	2.25	6.75	20.25
	1.1/2 ton capacity with 8' lift	3.00	8.85	26.50
	2 ton capacity with 9' lift	3.50	10.40	31.25
	3 ton capacity with 10' lift	4.85	14.60	44.00
	4 ton capacity with 10' lift	5.75	17.25	51.50
	5 ton capacity with 12' lift	7.50	22.50	67.00
	Extra lift			
	1 ton through 2 ton 5.50 per foot			
	3 ton through 5 ton .90 per foot			
2.	Electric Hoist, Single Drum			
	From 1 HP - 11 HP		20.00	60.00
	12 HP - 17 HP		25.00	75.00
	18 HP - 27 HP		30.00	90.00

## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
28 HP - 37 HP		40.00	120.00
38 HP - 47 HP		50.00	150.00
48 HP - 57 HP		60.00	175.00
58 HP - 67 HP		67.00	200.00
68 HP - 92 HP		75.00	225.00
93 HP - 112 HP		80.00	250.00

## S. HOSE, Air, Suction and Discharge

## 1. Air

1/2" x 50'	1.00	2.00	6.00
3/4" x 50'	1.25	2.65	7.85
1 " x 50'	1.50	3.15	9.45

## 2. Suction Hose (for Water Pump)

1.1/2" diameter x 10' length	1.45	2.85	5.69
1.1/2" diameter x 15' length	1.95	3.90	7.80
1.1/2" diameter x 20' length	2.45	4.95	9.85
2 " diameter x 10' length	2.40	4.80	9.60
2 " diameter x 15' length	3.40	6.75	13.45
2 " diameter x 20' length	4.35	8.70	17.35
2.1/2" diameter x 10' length	3.05	6.10	12.11
2.1/2" diameter x 15' length	4.20	8.40	16.75
2.1/2" diameter x 20' length	5.40	10.75	21.45
3 " diameter x 10' length	4.05	8.05	16.10
3 " diameter x 15' length	5.55	11.05	22.05
3 " diameter x 20' length	7.00	14.00	28.00
4 " diameter x 10' length	5.50	11.00	22.00
4 " diameter x 15' length	7.60	15.15	30.30
4 " diameter x 20' length	9.65	19.25	38.50

## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
3. Discharge Hose (for water pump)			
1.1/2" diameter x 10' length	1.00	2.50	4.50
1.1/2" diameter x 15' length	1.25	2.50	6.25
1.1/2" diameter x 20' length	1.50	3.50	8.00
2 " diameter x 10' length	1.50	2.75	6.00
2 " diameter x 15' length	1.50	3.25	7.50
2 " diameter x 20' length	2.00	4.25	10.00
2.1/2" diameter x 10' length	1.25	2.50	6.75
2.1/2" diameter x 15' length	1.75	3.25	8.50
2.1/2" diameter x 20' length	2.25	4.75	12.00
3 " diameter x 10' length	1.75	3.50	8.00
3 " diameter x 15' length	2.25	4.75	11.50
3 " diameter x 20' length	2.75	6.00	14.00
4 " diameter x 10' length	2.50	5.50	13.50
4 " diameter x 15' length	3.50	7.50	18.00
4 " diameter x 20' length	6.50	15.00	36.00
T. HEATER, Space			
Silent Glow, Portable, Oil	14.00	45.00	126.00



## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
U. Jacks, Hydraulic and Locomotive (Railroad)			
1. Hydraulic Jacks			
To 3 ton capacity	1.50	3.50	7.25
4 to 5 ton capacity	2.00	4.25	9.15
6 to 8 ton capacity	2.50	6.25	13.75
11 to 12 ton capacity	2.75	7.50	17.00
13 to 20 ton capacity	3.25	8.25	21.00
21 to 25 ton capacity	3.25	10.00	25.25
26 to 30 ton capacity	3.75	12.50	32.75
31 to 35 ton capacity	4.50	14.50	41.00
36 to 50 ton capacity	5.75	18.00	50.75
51 to 100 ton capacity	10.00	28.00	81.00
2. Locomotive Jack			
To 6 ton capacity	1.75	3.75	9.00
7 to 12 ton capacity	1.75	3.75	9.00
13 to 16 ton capacity	2.00	5.75	17.00
17 to 20 ton capacity	2.00	5.75	17.00
3. Single Acting, Ratchet Lowering			
To 5 ton capacity	2.00	5.75	15.75
6 to 10 ton capacity	2.50	6.00	15.75
11 to 15 ton capacity	2.75	7.00	18.00
16 to 20 ton capacity	4.00	10.75	27.00
21 to 25 ton capacity	4.50	11.00	30.00
V. LADDERS, Step, "A" and Extension			
1. Step Ladders			
6 foot	.50	1.55	4.75

TYPE OF EQUIPMENT	RENTAL RATES		
	Day	Week	Month
LADDERS (contd..)			
8 foot	.70	2.10	6.25
10 foot	.85	2.60	7.75
12 foot	1.20	3.75	10.75
2. "A" Ladders			
9 foot	.95	2.80	8.30
13 foot	1.05	3.15	9.40
17 foot	1.20	3.60	10.80
21 foot	1.40	4.10	12.29
3. Extension Ladders			
24 foot extended	1.00	3.00	8.90
30 foot extended	1.30	3.90	11.65
40 foot extended	1.75	5.20	15.50
W. LEVELS, Builders, Precision and Spirit			
1. Builders Level with Tripod	3.15	9.35	28.00
X. LOCKFORMERS			
16 gauge	12.40	37.15	111.50
18 gauge	10.45	31.35	94.00
20 gauge	7.20	21.65	65.00
22 gauge	6.70	20.00	60.00
Y. PIPE THREADING and Cutting Machines			
1. Rigid 400 Power Drive	3.50	10.00	30.00
Rigid 500 Pipe Machine (1" to 2")	5.00	20.00	60.00
Toledo 999 Threading Machine 1/2" to 2" with Pipe and Bolt Drive	11.00	35.00	102.00
2.1/2 to 4" Oster, Landis	71.00	175.00	400.00
2.1/2 to 6" Landis	153.00	275.00	700.00

	Day	Week	Month
2. Pipe Threading Stocks			
Universal Stock 1" to 2" (pipe and bolt)	.50	2.00	6.00
4 PJ 2.1/2" to 4" rigid	2.00	6.00	18.00
#161 2.1/2" to 6" rigid	4.00	12.00	36.00
Toledo Stock 2.1/2" to 4"	2.00	5.00	14.00
Toledo Stock 2.1/2" to 6"	3.50	10.00	30.00

(Prices do not include cutting dies; see Expendable Items, Section III, Page 23)

Z. PUMPS, Centrifugal, Diaphragm,  
Test and Sump

1. Pump, Liquid Centrifugal  
(Self-Priming) No Hose

1.1/2" gas engine powered	6.50	17.00	54.00
2 " gas engine powered	8.00	24.00	67.00
3 " gas engine powered	10.00	30.00	84.00
3" (20M) gas engine powered	10.50	31.00	88.00
4 " gas engine powered	16.00	45.00	130.00

2. Pump, Liquid Diaphragm (Force  
or Open Top) No Hose

1.1/2" single action 2 HP gas powered	7.50	21.00	62.00
2 " single action 2 HP gas powered	8.00	23.00	65.00
3 " single action 2-4.1/2 gas powered	9.50	29.00	83.00
3 " single action 4.1/2-9 HP gas powered	9.50	30.00	83.00
3 " double action 4.1/2 HP gas powered	10.00	29.00	83.00
3 " double action 4.1/2-9 HP gas powered	12.00	33.00	94.00
4 " single action 4.1/2 HP gas powered	11.00	33.00	92.00

TYPE OF EQUIPMENT		RENTAL RATES		
		Day	Week	Month
PUMPS (contd...)				
4	" single action 4.1/2-9 HP gas powered	12.00	35.00	130.00
4	" double action 4.1/2 HP gas powered	14.00	39.00	111.00
4	" double action 4.1/2-9 gas powered	15.00	43.00	127.00
3.	Pump, Test (Manually Operated)			
	750 PSI	.50	1.50	5.00
	2000 PSI	1.00	3.00	9.00
4.	Pump, Test (Electrically Operated)	1.00	3.50	10.00
	Ditto above, Hydraulic	2.50	7.50	22.50
	Ditto above, Vacuum	2.50	7.50	22.50
5.	Pump, Sump, Air Operated			
	Light	10.00	31.00	90.00
	Heavy	13.00	34.00	100.00
	Tandem	22.00	69.00	199.00
AA.	PYROMETER	8.00	27.00	80.00
BB.	ROLLS, Express			
	15 ton capacity	2.00	6.00	18.00
	40 ton capacity	3.00	9.00	27.00
	100 ton capacity	6.00	18.00	46.00
CC.	SANDERS, Electric			
	3" wide, belt type	4.00	12.00	37.00
	9" disc type	4.50	14.00	40.00
DD.	SAWS			
1.	Band Saw, Porta-Cable	6.00	17.00	50.00

TYPE OF EQUIPMENT	RENTAL RATES		
	Day	Week	Month
SAWS (contd...)			
2. Band, Johnson (Model J)	8.00	23.00	69.00
3. Chain, Gasoline Powered			
16" and 18" capacity	14.00	45.00	110.00
24" capacity	16.00	48.00	131.00
4. Chain, Electric			
12" to 18" capacity	10.00	31.00	90.00
18" to 36" capacity	10.00	31.00	90.00
5. Electric, Portable, Skil Type			
7" to 9" Blade size	5.00	15.00	45.00
9" to 11" Blade size	5.00	15.00	45.00
6. Saber Saw (Sawz-All or Key Hak)			
All sizes	4.00	12.00	35.00
7. Metal Cutting, Power Hack Saws Kalamazoo, Wells	8.00	24.00	70.00
8. Power Hack Saws	7.00	20.00	60.00

EE. SCAFFOLDING

1. Including end frames, bracing, boards and wheels			
Up to 3' High	\$2.00 per foot per month		
4' High	\$2.00 per foot per month		
5' High	\$2.00 per foot per month		
7' High	\$2.00 per foot per month		
2. Aluminium Staging, plus elevating equipment			
Manual			51.00
Electric 21'			138.00
Electric 30'			335.00
Electric 36'			520.00

## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
FF. SHEARS			
1. Beverly Shears			
16 - 24 gauge	.75	2.25	6.75
10 - 16 gauge	1.20	3.55	10.55
3/16 - 10 gauge	2.00	6.00	17.95
2. Unishears			
18 gauge	3.65	11.00	33.00
16 gauge	3.65	11.00	33.00
14 gauge	3.65	11.00	33.00
12 gauge	1.70	5.15	15.50
10 gauge	1.70	5.15	15.50
GG. SLINGS, Cable			
1/4" diameter x 5' length	.35	1.00	3.00
1/4" diameter x 10' length	.40	1.15	3.35
1/4" diameter x 15' length	.45	1.25	3.75
1/4" diameter x 20' length	.45	1.35	4.10
1/2" diameter x 5' length	.55	1.65	4.90
1/2" diameter x 10' length	.60	1.75	5.20
1/2" diameter x 15' length	.65	1.95	5.80
1/2" diameter x 20' length	.70	2.00	5.95
3/4" diameter x 5' length	.95	2.85	7.65
3/4" diameter x 10' length	1.00	2.95	8.80
3/4" diameter x 15' length	1.10	3.30	9.90
3/4" diameter x 20' length	1.25	3.70	11.05
1 " diameter x 5' length	1.90	5.75	17.25
1 " diameter x 10' length	2.10	6.20	18.62
1 " diameter x 15' length	2.30	6.80	20.40
1 " diameter x 20' length	2.50	7.40	22.10

	TYPE OF EQUIPMENT	RENTAL RATES		
		Day	Week	Month
HH.	SPADES, Clay (Air Tool) All Sizes (without steel)	5.00	15.00	43.00
II.	SPRAYER, Paint, Complete	6.00	17.00	40.00
JJ.	STEEL (Air Tool)			
	3" Chisel	1.45	3.00	6.10
	5" Chisel	1.70	3.70	7.95
	Spade, Clay (Steel Only)	1.90	4.15	9.15
	Moil Point-up to 14"	1.15	2.40	4.55
	Moil Point - 14" to 18"	1.25	2.40	4.55
	Moil Point - 18" to 24"	1.25	2.55	4.55
	Sheeting Driver with Shank	2.30	6.05	14.75
KK.	TARPAULINS			
	Through 125 sq. ft.	.25	.70	2.05
	126 - 400 sq. ft.	.50	1.40	4.00
LL.	TRANSIT, Engineer with Tripod	10.00	30.00	89.00
MM.	TRENCHERS			
1.	Ladder or Inclined Boom Type			
	3' depth 6" width gas powered	32.00	110.00	350.00
	4' depth 12" width gas powered	50.00	160.00	500.00
	5' depth 18" width gas powered	65.00	215.00	650.00
	6' depth 24" width gas powered	66.00	221.00	655.00
	5' depth 18" diesel powered	-	-	900.00
	11' depth 30" diesel powered	-	-	1,350.00

## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
TRENCHERS (contd...)			
2. Wheel Type			
5' D. 20" W. gas powered	90.00	260.00	800.00
6' D. 24" W. gas powered	-	350.00	1,100.00
5'6" D 24" diesel powered	-	-	950.00
6' D 24" diesel powered	-	-	1,300.00
3. Trench Braces			
1.1/2" diameter 16" to 18" long closed per dozen	-	9.00	25.00
NN. VEHICLES			
1. Station Wagon			
	21.00	62.00	186.00
2. Pick Up Trucks			
1/2 Ton	16.50	48.50	145.50
3/4 Ton	17.00	51.00	150.00
Four wheel drive	25.00	70.00	210.00
3. Stake Body Truck			
3/4 Ton	17.00	51.00	150.00
3/4 Ton with Lift Gate	20.00	60.00	175.00
1 Ton	20.00	60.00	175.00
1 Ton with Lift Gate	25.00	75.00	225.00
1.1/2 Ton	24.50	74.00	222.00
1.1/2 Ton with Lift Gate	27.00	80.00	240.00
2 Ton	27.50	82.00	246.00
2 Ton with Lift Gate	30.00	90.00	270.00
5 Ton	50.00	150.00	450.00



VEHICLES (contd...)	RENTAL RATES		
	Day	Week	Month
-Stake trucks with "A" frames have same rental as those with lift gates.			
-Trucks with "A" frames and lift gates are rented at lift gate rates plus \$5.00 per day, \$15.00 per week, \$45.00 per month additional.			
4. Tractor Truck (Tractor Only)			
Gas Powered	17.00	50.00	200.00
Diesel Powered	20.00	60.00	240.00
Tractor rates are plus \$.15 per mile driven on above rates.			
5. Jeep	17.00	50.00	200.00
6. Trailers			
Storage Van, Up to 26'	-	-	100.00
Storage Van, Up to 32'	-	-	125.00
Flat Bed, Up to 24'	12.00	35.00	100.00
Flat Bed, Up to 32'	15.00	43.00	125.00
Low Boy	20.00	50.00	150.00
Office Trailer, Up to 20'	-	-	150.00
Office Trailer, Up to 30'	-	-	175.00
Utility Trailer	4.00	10.00	30.00
7. Forklift Trucks, Warehouse Type			
1000# capacity on Pneumatic Tires	19.00	67.25	205.00
1500# capacity on Pneumatic Tires	19.00	67.25	205.00

## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
00. WARNING Barricades and Lights			
Light, battery powered-flashing	.95	3.25	8.05
Light & barricade unit, single light	.90	3.25	10.00
Light & barricade unit, double light	1.55	4.65	13.00
PP. WELDING Machines			
1. Gas Engine Powered			
under 250 Amps	14.00	42.00	128.00
250-350 Amps	20.00	60.00	180.00
350-500 Amps	30.00	85.00	250.00
2. Electric Motor Powered			
under 200 Amps	10.00	25.00	75.00
Up to 300 Amps	12.00	35.00	90.00
Up to 400 Amps	15.00	40.00	115.00
Over 400 Amps	20.00	50.00	140.00
3. Tungsten Arc, Inert Gas Welding Equipment			
a. Heli-Arc, air cooled for S.S. (used with DC Elec. Gen. welding machine)			
	9.00	28.00	86.00
b. Heli-Arc, water cooled, for aluminium (AC/DC) transformer with Hi-Freq. Unit			
	17.00	50.00	150.00
c. Heli-Arc, for aluminium or S.S. (AC/DC) welding unit (Magna-Tran)			
	40.00	75.00	200.00
d. MIG Welder-Wire Type-All metals (used with 200 amp AC/DC welding unit, 200 amp automatic gun, control box) (SOXCO)			
	40.00	60.00	200.00
e. Heli-Arc torch outfit only			
	7.00	18.00	51.00
f. Heli-Arc, 200 amp, gas driven water cooled for aluminium			
	25.00	100.00	300.00

## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
4. Stud Welders			
Up to 1/4" Stud	20.00	30.00	150.00
Up to 1/2" Stud with battery	40.00	125.00	275.00
5. Oxy-Ace. Cutting/Welding Outfit			
All Sizes	5.00	15.00	45.00
6. Prestolite Torch Outfits			
(less tanks)	1.00	3.00	9.00
7. Insto Outfits			
(less tanks)	1.00	3.00	9.00
NOTE: All welding machines provided with 100' of lead and 50' of ground cable. Additional cable is \$0.10 per foot per month.			
8. Stress Relieving Machine	85.00	250.00	750.00
QQ. WHEELBARROW			
All sizes, rubber tread	1.85	4.50	11.00
RR. WINCHES			
1 Ton, one drum, cable type Hand operated	2.00	7.50	20.00
2 Ton, one drum, cable type Hand operated	4.50	13.50	40.00
SS. WRENCHES, Impact			
1. Air operated			
5/8" capacity (standard)	12.50	37.50	113.00
2. Electrically Operated			
1/2" square drive	4.60	16.00	43.20
3/4" square drive	7.20	22.50	59.40

## TYPE OF EQUIPMENT

## RENTAL RATES

	Day	Week	Month
TT. OFFICE Equipment			
1. Typewriters			
Manual, 11" carriage	1.30	4.00	12.00
Manual, 14" carriage	1.65	5.00	15.00
Manual, 20" carriage	2.00	6.00	18.00
Electric, 14" carriage	3.35	13.35	40.00
2. Adding Machines			
Manual	1.30	4.00	12.00
Electric	1.65	5.00	15.00
3. Calculators, Electric	5.00	15.00	45.00
4. Check Protector	.40	1.65	5.00
5. Desk and Chair	.50	1.50	4.50
6. Drafting Table, with stool	.85	3.35	10.00
7. Air Conditioner, (window)	4.00	10.00	30.00

## SECTION II

## "Typical Small Tools"

These items are a definite item of cost on a job, and it is the usual practice in our industry to charge these items to the cost of a job on the basis of a set percentage of all field labor cost. (Field labor cost includes payroll taxes and insurances and fringes).

Adjustable Wrenches	Mauls
Asbestos Blankets	Oil Cans
Augers	Packing Irons
Axes	Picks
Bars (Claw, Crow, Pinch, Wrecking)	Pipe Markers
Bolt Cutters	Pipe Cutters (Hand)
Boring Machines (Hand)	Pipe Benders (Hand)
Braces	Pipe Wrenches (All Kind)
Bull Points	Pliers
Cable Grips	Portable Heaters
Calipers	Punches (All Types)
Carpenter Levels	Ratchets
Caulking Irons	Rollers
Clamps (Carpenters, Jewel, Welding, Cable)	Saws (Hand)
Dolly (Wood and Metal)	Screwdrivers
Drills (Hand)	Shackles
Drills, Electric, 1/4" and 3/8"	Shovels
Flashlights	Sledges
Gauges (Pressure, Test)	Slings (Rope)
Gas Buggies	Snips
Hammers (All Kind)	Squares
Horses (Mason)	Tampers (Hand)
Johnson Bars	Test Plugs (Rubber, Wooden)
Kettles (Tar)	Test Pumps (Hand)
Lead Pots	Tapes (Steel)
Lanterns	Tool Boxes
	Torches (Blow)
	Trowels
	Tubing Cutters
	Tubs (Mortar, Lime)
	Water Coolers
	Welding Shields

While this list is by no means complete, it is intended to give a representative cross section of the type of items which would be classified as "Small Tools".

## "Typical Expendable Items"

It is the general practice of our industry to charge these items of cost to a job as a part of the material cost of the job, or as items of direct job expense.

Abrasive Cutoff Discs	Motor Oil
Acetylene	Napthalene
Argon	Nitrogen
Chisels	Other Abrasives
Cleaning Fluids	Other Drill Bits and Saws
Cleanout Plugs	Other Fuels
Cutting Oil	Other Inert Shield Gases
Cutting and Welding Tips	Other Inert Test Gases
Diamond Core Bits	Other Lubricants
Emery Cloth	Other Printed Forms
Emery Wheels	Other Solvents
Files	Oxygen
Flux	Paste Brushes
Foul Weather Gear	Pipe Cutter Wheels
Gasoline	Pipe Dies
Gloves, soapstone	Pipe Joint Compounds
Grinding Wheels	Propane
Hacksaw Blades	Ramset Charges
Kerosene	Rod Dies
Material Charge Tickets	Sand Cloth

SECTION III

"Typical Expendable Items" (contd...)

Sand Paper	Tungsten Tips
Solder	Twist Drills
Star Drills	Welding Hood Lens
Time Charge Tickets	Welding Rod
Tip Cleaners	Wiping Cloths and Rags
Tool Handles	Wire Brushes

While this list is by no means complete, it is intended to give a representative cross section of the type of items which would be classified as "Expendable Items".

PT#



**SAM P. WALLACE & COMPANY**  
**OF PUERTO RICO, INC.**





**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

574

June 15, 1972

Digital Equipment Corporation  
Road 362  
San German Norte Industrial Development  
San German, Puerto Rico

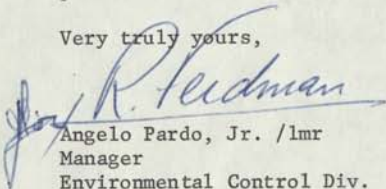
Reference: Construction of Building No. 4  
Our Job #308

Gentlemen:

We are attaching the original and one (1) copy of our Certification No. 7 for the period ending June 15, 1972, with attached supporting data.

We would appreciate your approving and expediting this certification for payment, which is for the amount of \$16,542.83, as promptly as possible.

Very truly yours,

  
Angelo Pardo, Jr. /lmr  
Manager  
Environmental Control Div.



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

P. O. BOX 1669, HATO REY, P. R. 00919

PHONE: 767-6910

*8#*

**INVOICE N° 1757**

Date: 7-24-72

TO: DIGITAL EQUIPMENT CORPORATION

REFERENCE: Construction of  
Building No. 4 - Job 308

I N V O I C E

SAM P. WALLACE 40% SHARE OF SAVINGS ON TOTAL COST OF WORK PERFORMED UNDER THIS CONTRACT AS FOLLOWS:

TOTAL REVISED MAXIMUM GUARANTEED PRICE.....	\$392,547.29
LESS TOTAL COST.....	<u>386,655.68</u>
	5,891.61

40% of \$5,891.61=\$2,356.64

TOTAL THIS INVOICE.....\$2,356.64

mac

*Ant Hanson*  
*8/3/72*

SAM P. WALLACE & CO. OF PUERTO RICO, INC.  
Mechanical Contractors  
P.O. BOX 1669  
Hato Rey, Puerto Rico 00919

*Pete. This review there CO. w/ Geo Bebe and someone before I sign*

Fecha June 15, 1972

DIGITAL EQUIPMENT CORPORATION  
Road 362 - San German Industrial Development  
San German, Puerto Rico

Project Construction of Building No. 4 Project No. 308

Subcontract for: AWK

Certification Number: <u>7</u>	for period ending <u>June 15, 1972</u>
1. Original Contract Price	\$ <u>348,775.00</u>
2. Approved Change Orders:	
No. <u>1</u> thru <u>4</u>	\$ <u>17,719.73</u>
No. <u>6</u> thru <u>10</u>	\$ <u>9,630.31</u>
No. <u>1</u> thru <u>24</u>	\$ <u>16,422.25</u>
No. _____	\$ _____
No. _____	\$ _____
Total Approved Change Orders	\$ <u>43,772.29</u>
3. TOTAL: Contract Price and Approved Change Orders	\$ <u>392,547.29</u>
4. Value of Work Completed to Date	\$ <u>344,152.30</u>
5. Materials Stored on Site:	
a) Allowed Last Estimate	\$ _____
b) Increase or Decrease during this payment period	\$ _____
c) Value of Materials now on site	\$ _____
6. Total Earnings	\$ <u>344,152.30</u>
7. Less: 10% Retainage	\$ <u>-0-</u>
8. Total Payment Due to Date	\$ <u>344,152.30</u>
9. Less: Previous Billings	\$ <u>327,609.47</u>
10. AMOUNT DUE THIS CERTIFICATION	\$ <u>16,542.83</u>

I certify that all work performed and all materials supplied are in full accordance with the plans and specifications for this project; that the above is a true and correct statement of the contract amount up to and including the date indicated; and that no part of the AMOUNT DUE THIS CERTIFICATION has been received.

*OK. 6/21/72  
Pete Mackey*

BY Angelo Pardo, Jr.  
Angelo Pardo, Jr., Manager  
Environmental Control Div.

## CHANGE ORDER SCHEDULE

JOB #308

<u>C. O. NO.</u>	<u>SUB-CONTRACT</u>	<u>C. O. AMOUNT</u>	<u>REVISED M.G.P.</u>
1	Lord Elect.	N/C	348,775.00
2	Lord Elect.	1,187.73	349,962.73
3	Lord Elect.	6,163.50	356,126.23
4	Lord Elect.	10,368.50	366,494.73
5	Deleted	---	---
6	Viking	1,894.36	368,389.09
7	Viking	2,902.20	371,291.29
8	Viking	3,333.75	374,625.04
9	Viking	600.00	375,225.04
10	S.P.W.	900.00	376,125.04
11	Viking	5,775.00	381,900.04
12	Viking	435.75	382,335.79
13	Viking	567.00	382,902.79
14	Viking	1,616.50	384,519.29
15	Viking	180.00	384,699.29
16	Viking	3,171.00	387,870.29
17	Viking	3,381.00	391,251.29
18	Viking	(2,275.00) ✓	388,976.29
19	Lord Elect.	1,094.00	390,070.29
20	Lord Elect.	343.00	390,413.29
21	Deleted	---	---
22	Viking	500.00	390,913.29
23	Deleted	---	---
24	S.P.W.	1,634.00	392,547.29

392,547.29  
 349,962.73  
 423,745.2

RECOMMENDED SUPPLIER AND ADDRESS					REQ. DELIVERY	APPROX. TOTAL COST	APPROVAL SIGNATURE <i>Paul Ester</i> 8/1/72	DATE 8/30/72	
BADGE NO. 6172	COST CTR 648	ACCT.	ACT. CODE XRS	1 07895	2	3	BUYER CODE Mackey	REQUESTED BY: Mackey	LOCATION Puerto Rico

**digital**

REQUISITION / PURCHASE ORDER

No. PR-4376

DIGITAL EQUIPMENT CORPORATION

146 MAIN ST., MAYNARD, MASS. 01754 BLDG. DOCK  
AREA CODE 617-897-5111

1111 SOUTHAMPTON RD., WESTFIELD, MASS. 01085  
AREA CODE 413-568-9511

DIGITAL DRIVE, WESTMINSTER, MASS. 01473  
AREA CODE 617-897-5111

VENDOR

S. P Wallace Co.  
PO Box 1669  
Hato Rey, Puerto Rico

SHIP TO

CONFIRMING PHONE ORDER DATE	SHIP VIA	TERMS	FOB
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ITEM	QUANTITY	DESCRIPTION / NUMBER	UNIT PRICE	TOTAL	DELIVERY
		Original contract price			
		348,775.00			
		Change orders total			
		43,772.29			
		(See attached copies for details)			
		Revised P.O total			
		392,547.29			
			TOTAL PRICE	→	

IMPORTANT VENDOR INSTRUCTIONS

(1) PLEASE SEND INVOICES IN TRIPLICATE TO:  
ACCOUNTS PAYABLE DEPARTMENT  
146 MAIN STREET  
MAYNARD, MASSACHUSETTS 01754

(2) OUR PURCHASE ORDER NO. MUST APPEAR ON ALL INVOICES, PACKING SLIPS AND SHIPPING DOCUMENTS.

BUYER SIGNATURE AND DATE

Blank box for Buyer Signature and Date

RECOMMENDED SUPPLIER AND ADDRESS				REQ. DELIVERY	APPROX. TOTAL COST	APPROVAL SIGNATURE & DATE <i>A. J. Johnson 8/30/72</i>			
BADGE NO. <i>6172</i>	COST CTR. <i>648</i>	ACCT.	ACT. CODE	1	2	3	BUYER CODE	REQUESTED BY: <i>macbey</i>	LOCATION <i>Puerto Rico</i>

**digital**

REQUISITION / PURCHASE ORDER

No.

DIGITAL EQUIPMENT CORPORATION

146 MAIN ST., MAYNARD, MASS. 01754 BLDG. DOCK AREA CODE 617-897-5111
1111 SOUTHAMPTON RD., WESTFIELD, MASS. 01085 AREA CODE 413-568-9511
DIGITAL DRIVE, WESTMINSTER, MASS. 01473 AREA CODE 617-897-5111

VENDOR

*S P Wallace*

SHIP TO

CONFIRMING PHONE ORDER DATE	SHIP VIA	TERMS	FOB
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ITEM	QUANTITY	DESCRIPTION / NUMBER	UNIT PRICE	TOTAL	DELIVERY
1		<i>Addition of metering cubicle, three lightning arresters, a ground bus to indoor substation</i>		<i>1187.73</i>	
2		<i>Relocate 38KV outdoor substation Provide new 500 MCM feeders from new 38KV sub-station location Reloc of 1000 KVA indoor substation</i>		<i>6163.50</i>	
3		<i>Change no load tap changer to automatic load tap changer in power transformer</i>		<i>10368.50</i>	
4		<i>Installation of Sub soil study at fire water storage tank location</i>		<i>1894.36</i>	
				TOTAL PRICE →	<i>1894.36</i>

**IMPORTANT VENDOR INSTRUCTIONS**

(1) PLEASE SEND INVOICES IN TRIPLICATE TO:  
ACCOUNTS PAYABLE DEPARTMENT  
146 MAIN STREET  
MAYNARD, MASSACHUSETTS 01754

(2) OUR PURCHASE ORDER NO. MUST APPEAR ON ALL INVOICES, PACKING SLIPS AND SHIPPING DOCUMENTS.

BUYER SIGNATURE AND DATE

RECOMMENDED SUPPLIER AND ADDRESS				REQ. DELIVERY	APPROX. TOTAL COST	APPROVAL SIGNATURE & DATE <i>Ch. Hanson 8/30/72</i>
BADGE NO. 6172	COST CTR. 648	ACCT.	ACT X 9507895 X 9507894	BUYER CODE	REQUESTED BY: <i>Mackey</i>	LOCATION <i>P. R.</i>

**digital**

REQUISITION / PURCHASE ORDER

No.

DIGITAL EQUIPMENT CORPORATION

146 MAIN ST., MAYNARD, MASS. 01754 BLDG. DOCK  
AREA CODE 617-897-5111

1111 SOUTHAMPTON RD., WESTFIELD, MASS. 01085  
AREA CODE 413-568-9511

DIGITAL DRIVE, WESTMINSTER, MASS. 01473  
AREA CODE 617-897-5111

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CONFIRMING PHONE ORDER DATE	SHIP VIA	TERMS	FOB
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ITEM	QUANTITY	DESCRIPTION / NUMBER	UNIT PRICE	TOTAL	DELIVERY
5		Change 512' of underground pipe from 8" $\phi$ to 10" $\phi$		2902.20	
6		Installation of by-pass system from relief line to suction line at fire water pump.		3333.75-	
7		Installation of two additional 2 way fire hydrants.		600.00	
8		Clearing + grubbing area near tank location		900.00	
9	4	Exterior hose cabinets		5775.00	
10		Installation of an additional 6" $\phi$ check valve requested by PRMSIF		435.75-	
			TOTAL PRICE		

IMPORTANT VENDOR INSTRUCTIONS

(1) PLEASE SEND INVOICES IN TRIPLICATE TO:  
ACCOUNTS PAYABLE DEPARTMENT  
146 MAIN STREET  
MAYNARD, MASSACHUSETTS 01754

(2) OUR PURCHASE ORDER NO. MUST APPEAR ON ALL INVOICES, PACKING SLIPS AND SHIPPING DOCUMENTS.

BUYER SIGNATURE AND DATE

RECOMMENDED SUPPLIER AND ADDRESS				REQ. DELIVERY	APPROX. TOTAL COST	APPROVAL, SIGNATURE & DATE <i>Ar. Hansen 8/30/74</i>
BADGE NO. <i>6172</i>	COST CTR. <i>648</i>	ACCT.	ACT. CODE <i>X 9507895</i> <i>X 9507894</i>	BUYER CODE	REQUESTED BY: <i>Macbey</i>	LOCATION <i>P. R.</i>

**digital**

REQUISITION / PURCHASE ORDER

No.

DIGITAL EQUIPMENT CORPORATION

146 MAIN ST., MAYNARD, MASS. 01754 BLDG. DOCK  
AREA CODE 617-897-5111

1111 SOUTHAMPTON RD., WESTFIELD, MASS. 01085  
AREA CODE 413-568-9511

DIGITAL DRIVE, WESTMINSTER, MASS. 01473  
AREA CODE 617-897-5111

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CONFIRMING PHONE ORDER DATE	SHIP VIA	TERMS	FOB
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ITEM	QUANTITY	DESCRIPTION / NUMBER	UNIT PRICE	TOTAL	DELIVERY
11		Two additional interior first aid hose stations		567.00	
12		Installation of three 6" $\phi$ valves for hydrants Additional 47' of 6" $\phi$ pipe for hydrant on W side One 6" $\phi$ 90° EL for hydrant.		1616.50	
13		Additional four 10" $\phi$ 45° bends for offsetting line		180.	
14		Additional 150' of 4" $\phi$ line for relocation of storage tank To new pit valve - add 4" gate valve		3171.	
			TOTAL PRICE →		

**IMPORTANT VENDOR INSTRUCTIONS**

(1) PLEASE SEND INVOICES IN TRIPLICATE TO:  
ACCOUNTS PAYABLE DEPARTMENT  
146 MAIN STREET  
MAYNARD, MASSACHUSETTS 01754

(2) OUR PURCHASE ORDER NO. MUST APPEAR ON ALL INVOICES, PACKING SLIPS AND SHIPPING DOCUMENTS.

BUYER SIGNATURE AND DATE



RECOMMENDED SUPPLIER AND ADDRESS				REQ. DELIVERY	APPROX. TOTAL COST	APPROVAL SIGNATURE & DATE <i>Alv Hansen 8/30/72</i>
BADGE NO. <i>6172</i>	COST CTR. <i>648</i>	ACCT.	ACT. CTR. <i>X 95 07895</i> <i>X 95 07894</i>	BUYER CODE	REQUESTED BY: <i>mackey</i>	LOCATION <i>P. R.</i>

**digital**

REQUISITION / PURCHASE ORDER

No. \_\_\_\_\_

DIGITAL EQUIPMENT CORPORATION

146 MAIN ST., MAYNARD, MASS. 01754 BLDG. \_\_\_\_\_ DOCK \_\_\_\_\_  
AREA CODE 617-897-5111

1111 SOUTHAMPTON RD., WESTFIELD, MASS. 01085  
AREA CODE 413-568-9511

DIGITAL DRIVE, WESTMINSTER, MASS. 01473  
AREA CODE 617-897-5111

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CONFIRMING PHONE ORDER DATE	SHIP VIA	TERMS	FOB
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ITEM	QUANTITY	DESCRIPTION / NUMBER	UNIT PRICE	TOTAL	DELIVERY
<i>15</i>		<i>Additional valve pit with 8" valves required by PRASA at front connection</i>		<i>3381.</i>	
<i>16</i>		<i>Premium time difference for overtime authorized to Load Electric</i>		<i>1094.</i>	
<i>17</i>		<i>Help from Load Electric for 100 amp bus duct installation</i>		<i>343.</i>	
<i>18</i>		<i>Additional painting of water storage tank</i>		<i>500.</i>	
<i>19</i>		<i>Felling of storage tank area</i>		<i>1634.</i>	
			TOTAL PRICE →		

**IMPORTANT VENDOR INSTRUCTIONS**

(1) PLEASE SEND INVOICES IN TRIPLICATE TO:  
ACCOUNTS PAYABLE DEPARTMENT  
146 MAIN STREET  
MAYNARD, MASSACHUSETTS 01754

(2) OUR PURCHASE ORDER NO. MUST APPEAR ON ALL INVOICES, PACKING SLIPS AND SHIPPING DOCUMENTS.

BUYER SIGNATURE AND DATE



SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.

MEETING AT DIGITAL EQUIPMENT CORP.

Date Held: March 1st, 1972

PRESENT : For Digital : Mr. P. Mackey  
Mr. H. Quiñonez

For S.P.W. : Mr. R. Ferdman  
Mr. H. Kohler

For Viking : Mr. Parreño  
Mr. E. Torres

For Lord Electric: Mr. L. Falto

The meeting was called to coordinate the completion of the project.

A. The following completion dates were given:

- 1) March 11, 1972 - All electrical installation with exception of 38 KV substation and pump house.
- 2) March 13, 1972 - All air conditioning units started and tested. The units will be tested at a rate of three per day starting Monday 3-6-72. The completion date is conditioned that power will be provided to the units to maintain the above rate of testing.
- 3) March 10, 1972 - All inside fire protection system completed and tested.
- 4) The air system is already completed and tested.

B. The following items were reported:

- 1) The towers for the 38 KV substation had arrived to the site. The only equipment missed is the transformers which is expected in a couple of weeks.
- 2) Sam P. Wallace personnel will perform the foundation for the water reserve tank and the pump house (civil part). The foundation will be ready for March 10, 1972 if there are no delays for bad weather.
- 3) At the time of the water tie-ins for the main lines, it will be necessary to shut-off the water from the existing fire protection system for a few hours. The insurance company has to be informed with 24 hours in advance. S.P.W. will take care to report accordingly.
- 4) Viking will request F.I.A. approval for the foundations of the tank as designed by Alonso y Carus with the tank wall at the center of the concrete ring.



SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.

MEETING AT DIGITAL EQUIPMENT CORP.

March 1st, 1972

PAGE 2...

- 5) S.P.W. furnished Mr. Mackey a detail summary of all change orders up to date.
- 6) The pump house will be built with a concrete roof instead of the corrugated asbestos originally designed. This will not change the maximum guaranteed price.

BY:

  
ROBERT O'FERDMAN

Item	BADGE NO.	COST CTR.	ACCT.	1	2	3	4	5	6	7
						2105 - 162	Puerto Rico	ACQUISITION		Correspondence
	6172	634				x95 - 07895				
						x95 - 07894				P. Mackey

# digital

PURCHASE ORDER NO. **PR-4376**

OUR PURCHASE ORDER NO. MUST APPEAR ON ALL INVOICES, PACKING SLIPS AND SHIPPING DOCUMENTS.

SHIP TO

*X R Proposal*

TO **Sam P. Wallace & Co. of P. R., Inc.**  
**P. O. Box 1669**  
**Hato Rey, Puerto Rico 00919**

DEC de PUERTO RICO

CARR. 362  
 FRENTA URB. EL CONVENTO  
 SAN GERMAN, P. R.

Area Code. 809 - 892-1231 - 892-1946

DATE TYPED	SHIP VIA	TERMS	F. O. B.	GOV'T. CONT. NO.	TO BE DELIVERED BY

PLEASE SHIP SUBJECT TO THE CONDITIONS ON THE FACE AND BACK HEREOF THE FOLLOWING

ITEM	QUANTITY	STOCK NO./DESCRIPTION	UNIT PRICE	AMOUNT
<p>As presented in a proposal to Digital Equipment Corp. representatives, Peter Mackey and Ray Carlson, on August 26, 1971 for the construction contract, phase 2 fit-up in San Germán, Puerto Rico. To consist of the following scope of work as quoted in the proposal prepared by Sam P. Wallace &amp; Co. of Puerto Rico, Inc. dated 8-31-71.</p> <p><b>First:</b> The contractor agrees to supply all engineering evaluation supervision coordination, all labor, materials, tool, equipment, related to this work, defined as follows:</p> <ol style="list-style-type: none"> <li>Sam P. Wallace &amp; Company of Puerto Rico, Inc., Mechanical scope of work-- see attached Exhibit A.</li> <li>Lord Electric's letter of quotation and scope dated August 24, 1971, attached--See Exhibit B and as amended 8-31-71.</li> <li>All permits related to the scope of work which are required by local Government Agencies and Regulation Boards, shall be obtained by the contractor and furnished to the owner.</li> </ol> <p>The work described above shall be performed not to exceed the sum of \$348,775.00, subject to such additions and deductions for changes as made in writing be agreed upon.</p>				

REFER ALL COMMUNICATIONS REGARDING THIS ORDER TO:

*721000*



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

*PHH*  
*Rec*

February 15, 1972

Digital Equipment Company  
146 Main Street  
Maynard, Massachusetts

Attention: Mr. Peter Mackey

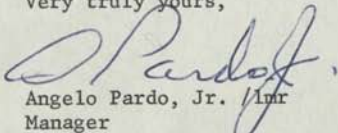
Reference: Digital Equipment Company  
San German, P. R.  
Our Job #308

Gentlemen:

We are attaching for your information and records a copy of a memorandum from Victor M. Garcia & Associates covering the air conditioning units being installed at the above captioned project, which is self-explanatory.

We suggest you check with your Design Division in order to verify the results outlined by Victor M. Garcia & Associates.

Very truly yours,

  
Angelo Pardo, Jr. /lmr  
Manager  
Environmental Control Div.

Enc.

Tab 305  
P

MEMORANDUM

TO: Victor M. Garcia Associates  
FROM: José E. Custodio *J. Custodio*  
ATTN: Víctor M. Negrón  
Sub-Director  
RE: Digital Equipment Corp. Expansion  
DATE: January 24, 1972

Based on the drawings given to us by Sam P. Wallace Co. and the internal cooling loads given in the cooling loads estimate done by Digital Staff, I made our cooling load estimate for the above mentioned project. The results were as follows:

- 1- Outside design conditions shall be 90° FDB & 80° FWB.
- 2- I used 6,000 CFM outside air as recommended by Digital, but I think this will be too low if they are going to have exhaust equipment from the different areas. They should verify to see if this amount of O.A. is enough for pressurizing the building after the required amount of air is exhausted.
- 3- My cooling load estimate gives a total refrigeration load of 255 tons, with a total air movement of 145,000 CFM and a total temperature difference of 14.43°F between room temperature (75°F) and supply outlet temperature (60.57°F).

*P*

Rec'd  
2/2/72

I recommend that a more carefull cooling load study be done to determine the exact refrigeration load to be install. This study shall be done taking in consideration the actual internal loads contemplated in the Design of the whole project, this shall include but not limited to:

- 1- Lighting
- 2- Motors & heat producing electrical equipment
- 3- Open and closed tanks
- 4- Heat producing piping
- 5- Exhaust air requirements

digital

February 22, 1972

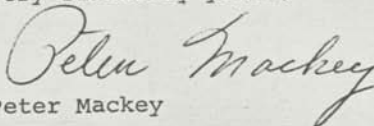
Mr. Jose E. Custodio  
Victor Garcia Associates  
504 Munoz Rivera  
Hato Rey, Puerto Rico 00918

Dear Mr. Custodio:

Thank you for your letter dated January 24, 1972 in reference to our air conditioning installation in Phase II in San German, Puerto Rico.

I have handed your letter to our air conditioning engineering department and will let you know how they determine their load requirements.

Very sincerely yours,



Peter Mackey

cc: Victor N. Negrón  
cc: Angelo Pardo - S. P. Wallace Co  
cc: Walter Johnson - Plant Engineering

PM/gl



*Puerto Rico*

*Correspondence  
X R Lord Electric*



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

January 12, 1972

Digital Equipment Company  
146 Main Street  
Maynard, Massachusetts

Attention: Mr. Peter Mackey

Re: Digital Plant Expansion  
San German, Puerto Rico  
Our Job 308

Dear Mr. Mackey:

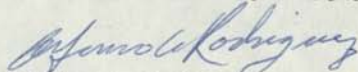
We have had business relations with your firm for the last several years. Our relations with you and other members of the Digital staff have always been above board. We have found the Digital staff to be firm but fair.

In our last negotiations for reference project, at no time did any member of the Digital staff reveal to us any information to the fact that someone else was quoting the project. You asked us for a quotation, so in combination with Lord Electric, we gave you one quote and you gave us the project.

Please feel free to call on us if any additional information is required.

Very truly yours

SAM P. WALLACE & CO. OF P.R., INC.

  
ALFONSO A. RODRIGUEZ  
President

AAR:gav

c.c. Mr. Ruben Velez, Lord Electric



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

*PH*

January 12, 1972

Puerto Rico Industrial Development Co.  
G.P.O. Box 2350  
San Juan, Puerto Rico 00936

Attention: Mr. Jose E. Yumet  
Director, Mech. & Elect. Dept.

Reference: Digital Equipment Corporation  
Our Job No. 308

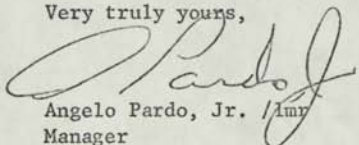
Gentlemen:

Pursuant to our meeting this morning with you and Mr. Peter Mackey of Digital Equipment Corporation, please consider this letter our formal request for your approval and concurrence with the location of the following tanks:

- a) The proposed 250,000 gallon fire tank and pump house will be located at the northeast corner of Lot No. 4 near coordinate No. 14, of Lot No. 4. Structure shall be installed as close as possible to the limits of the Puerto Rico Water Resources' right of way.
- b) An additional future storage tank, in the magnitude similar to that of the fire tank, will be located at a point between the fire tank and the new 38 KVA substation or in the event Digital Equipment Corporation decides to expand its facilities to phase 3, the tank will be located at the north corner of Lot No. 8 near coordinate No. 15, also outside of the limits of Puerto Rico Water Resources' right of way.

Your earliest official concurrence of the above will be appreciated.

Very truly yours,

  
Angelo Pardo, Jr. / *Amr*  
Manager  
Environmental Control Div.

*2/2/72*  
*cc L. Best*

cc: Mr. Peter Mackey - Digital



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

PH

December 20, 1971

Digital Equipment Corporation  
Road 362  
San German Norte Industrial Development  
San German, Puerto Rico

Attention: Mr. Peter Mackey

Reference: Construction of Building No. 4 - Our Job No. 308

Dear Sirs:

This will confirm our telephone conversation of December 16 regarding our field visit to the project on the 15th. We advised you as follows:

1. Though we were unable to meet Mr. Sadi Antongiorgi, we were advised by members of his staff that we would not be allowed to commence any work within the building until such time as he has completed his contract with Fomento.
2. That they do not expect to complete their work until the latter part of February. (approximately two months).
3. The status of the concrete pavement within the building was approximately 55 percent complete.

This will also confirm our concern of the delays being caused to our work by the other contractor and which are beyond our control.

Very truly yours,

José R. Lebrón  
Staff Engineer  
Environmental Control Div.

Puerto Rico

Correspondence



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

XR Insurance

PH

November 11, 1971.

Digital Equipment Corporation  
Road 362  
San German Norte Industrial Development  
San German, Puerto Rico

Attention: Mr. Peter Mackey

Reference: Construction of Phase II

Dear Mr. Mackey:

For your record, we are enclosing herewith copy of Lord Electric Co.'s State Insurance Fund Policy for reference project.

Just after our last letter left the office, we were advised by Viking Fire Sprinkler Co. that they had received final approval from F.I.A. for the Inside Fire Protection System. We are enclosing copy of this approval.

Concerning the Outside Fire Protection System, we may inform you that in a meeting we held with the Puerto Rico Aqueduct Authority this week all their objections were withdrawn. Tomorrow morning, we shall re-submit our drawings to the Authority for final approval.

We shall keep you informed of anything of importance in relation to the project.

Very truly yours,

Jose R. Lebron /lmr  
Staff Engineer  
Environmental Control Div.

# FONDO DEL SEGURO DEL ESTADO POLIZA DE SEGURO

## DECLARACIONES

Ampliar en

Forma Número

**D 084712**

1 Nombre del Patrono **Lord Electric Co. of Puerto Rico, Inc.**  
 Dirección Postal **G. P. O. Box 3400 San Juan, Puerto Rico 00936**  
 Dirección Residencial **Ave Simón Federico Villa Prados, Río Piedras, Puerto Rico**

2 Esta póliza estará en vigor desde **14 de octubre de 19 71** a las **3:04 P.M.** y expirará en **30 de marzo de 19 72** a las **12:00 P.M.**, sujeta a las condiciones y limitaciones consignadas en ella misma y en la Ley y Reglamentos del Fondo del Seguro del Estado, para cubrir en los sitios o localidades indicadas a continuación, las operaciones o riesgos específicamente objeto de este seguro.

3 Los sitios o localidades de todas y cada una de las fábricas, plantas, talleres, pabellones, edificaciones, fincas, industrias, negocios, oficinas o cualquier otro trabajo del patrono, por pueblos, barrios, calles y púncaro son:  
**Digital Equipment Bldg 4, San Germán, Puerto Rico**

Las operaciones o riesgos objeto del seguro en los sitios o localidades arriba indicados se especifican a continuación.

CLASIFICACION DE RIESGOS (Naturaleza de la Industria, Negocio, Profesión u Oficio)	Núm. Objeto	Clave Núm.	Grupo Núm.	NOMINA ESTIMADA	Tipo Básico	CUOTA
ESTIMADO AÑO FISCAL 19 71 -19 72						
Instalación Eléctrica		5150	272	144,954.00	\$6.00	\$2,697.84



5 Las operaciones o riesgos, antes especificados, objeto de este seguro, en los sitios o localidades arriba indicados, están sujetos a las siguientes condiciones o limitaciones adicionales:

- A- Todas aquellas que se consignan al dorso de esta póliza.
- B- Póliza Eventual.
- C- Cobro empleador del patrono en instalación eléctrica interior en "Digital Equipment Bldg 4" San Germán, Puerto Rico. Contrato por \$142,950.00.
- D- El patrono deberá rendir declaración de la nómina al terminar el trabajo.
- E- Se contiene anexo a revisión y aprobación del Administrador del F. S. E.

HOJA INGRESO **755**  
 El patrono pagó cuota por \$ **2,697.84** según recibo del Oficial Recaudador **Ara E. Tejo**  
 FECHA de **14 de octubre de 1971**  
 Número **31-502** del **36** de **Octubre** de **19 71**  
 1er. SEMESTRE **\$1,348.92** Prepara para Cargo **Tramite en Cargo**  
 2do SEMESTRE **\$1,348.92** Fecha  Fecha  RECIBO NUM   
 3er SEMESTRE  Fecha  Fecha  CARGO NUM   
 4to SEMESTRE  Fecha  Fecha

Por **Rafael Rivera** Administrador del Fondo del Seguro del Estado  
 Por **Riviera Rivera** Jefe de Oficina de Recaudación  
 Por  Jefe de Oficina de Recaudación

JURAMENTO  
 Yo, **Jaime Carlos Méndez**  
 Jefe de Oficina de Recaudación, declaro bajo juramento que por el **Fondo del Seguro del Estado** se otorga a  un seguro de vida, de cuantía  y condiciones  a  a quien renuncia personalmente en **Río Piedras** P.R. en  de  de **19 71** a las  horas.



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

November 8, 1971

Mr. Peter Mackey  
Digital Equipment Corporation  
Road 362  
San German Norte Industrial Development  
San German, Puerto Rico 00753

Re: Digital Equipment Corporation  
San German, P. R.  
Construction of Phase II  
Our Job No. 308

Dear Mr. Mackey:

Enclosed please find a copy of the letter from Factory Insurance Association to Viking Fire Sprinkler Co. concerning the Fire Protection System for above reference project.

At this time, we feel that the final approval by F.I.A. to our construction drawings shall take place in a few more days.

We shall keep you informed of this or any other progress in the pre-construction stage of the project.

Very truly yours,

Jose R. Lebron /lmr  
Staff Engineer  
Environmental Control Div.

Enc.



FACTORY INSURANCE ASSOCIATION

HARTFORD · CHICAGO · SAN FRANCISCO

EASTERN REGIONAL OFFICE  
85 WOODLAND STREET  
HARTFORD, CONNECTICUT 06102  
TEL (203) 523-2601  
TELEX 9-0349

October 27, 1971

Mr. Jose H. Milla  
Fire Protection Engineer  
Viking Fire Sprinkler Co. of Puerto Rico, Inc.  
104 Del Rio Street  
Santurce, Puerto Rico 00911



Dear Mr. Milla:

DIGITAL EQUIPMENT CORPORATION  
SAN GERMAN, PUERTO RICO  
FIA FILE NO. E-29080-E

Replying to your October 20, 1971 letter, the valve on the pumper header discharge line should not be deleted, regardless of whether conditions are such that sub-freezing temperatures do not exist.

Regarding the design of the sprinkler system in accordance with Item No. 8 of our October 13, 1971 letter, we felt that staggered sprinklers would be desirable; however, if this poses a major problem, we will go along with the system design as installed in Phase No. I.

We trust the above will not pose any inconvenience to you or the Insured.

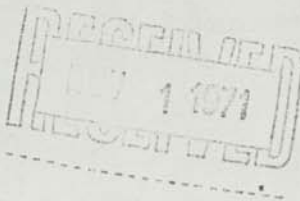
Sincerely,

*RJK*  
R. J. Kasper  
Engineering Supervisor

fcw

cc:  
Mr. L. Best  
Digital Equipment Corporation  
141 Main Street  
Maynard, Mass.

Mr. L. R. Hathaway  
Marsh & McLennan, Inc.  
2500 Prudential Center  
Boston, Mass. 02199



*20*



## SAM P. WALLACE & COMPANY OF PUERTO RICO, INC.

### MINUTES OF MEETING

DATE: October 22, 1971

SUBJECT: Digital Equipment Corporation  
Construction of Phase II

ATTENDANTS:

Mr. Peter Mackey, Digital Equipment Corporation  
Mr. Victor Garcia, Victor M. Garcia & Associates  
Mr. Victor Negron, Victor M. Garcia & Associates  
Mr. Edgardo Arroyo, Victor M. Garcia & Associates  
Mr. Angelo Pargo, Jr., Sam P. Wallace & Co.  
Mr. Jose R. Lebron, Sam P. Wallace & Co.

1. Eng. Pardo opened the meeting with a brief discussion of the general scope of the design and coordination work.
2. Mr. Mackey explained that construction of the mechanical, electrical and fire protection systems for Phase II should be considered as a part of the short range program, while the temporary parking should be made a part of the long range program.
3. Mr. Mackey pointed out that the official completion time for Mr. Antongiorgi is February 15, 1971. However, his work is ahead of time by about one month according to FOMENTO. This information emphasizes the importance of moving fast in the mechanical, electrical and fire protection systems. Sam P. Wallace compromises itself to meet with Mr. Antongiorgi to make arrangements as to when can Sam P. Wallace come into the building to start its work.
4. Digital's new proposed location for the fire tank was discussed. It was determined that the right-of-way for the electrical distribution line leaves no space for tank. Mr. Mackey shall propose a new location. In the meantime, and in order to give F.I.A. an idea about distance from tank to building, different suitable locations shall be proposed in the fire protection drawings.





SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.

MINUTES OF MEETING

Digital Equipment Corporation  
Construction of Phase II

PAGE 2

5. Eng. Victor M. Garcia indicated that he needs electric load and heat load calculations. Mr. Mackey promised to provide this information.
6. At Eng. Pardo's request, Mr. Mackey promised to provide three sets of Construction Drawings.
7. Eng. Arroyo requested from Mr. Mackey information on any existing underground utilities in the area close to the proposed location for the electric substation. Mr. Mackey informed that, to his best knowledge, there is none. However, he will check.
8. Eng. Garcia informed Mr. Mackey about a letter he received from Digital concerning the water-and-waste demands of the San German factory. Mr. Mackey answered that he does not know about the letter since he is not involved in that particular problem.  
*The water + waste being investigated by CD+14*
9. Eng. Lebron stressed the importance of moving fast in all the design and coordination work so that the construction schedule can be accomplished.

Respectfully submitted,

Jose R. Lebron  
Staff Engineer  
Environmental Control Div.

cc: Victor M. Garcia



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

November 8, 1971

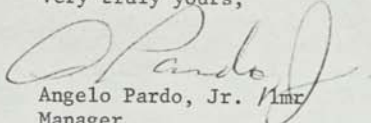
Mr. Peter Mackey  
Digital Equipment Corporation  
Road 362  
San German Norte Industrial Development  
San German, Puerto Rico 00753

Re: Construction of Phase II  
Fire Protection System  
Our Job No. 308

Dear Mr. Mackey:

Attached are the minutes held on October 22, 1971 concerning  
the above captioned project.

Very truly yours,

  
Angelo Pardo, Jr. /mr  
Manager  
Environmental Control Div.

cc: Victor M. Garcia & Associates



**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

October 19, 1971

Mr. Fausto Parreño  
General Manager  
Viking Fire Sprinkler Co. of P. R. Inc.  
104 Del Rio Street  
Santurce, P. R. 00911

Subject: Digital Equipment Corp.  
Construction of Phase II

Dear Mr. Parreño:

In reference to the meeting held on October 12, 1971, in our offices, with you and Eng. Juan Garcia, from Lord Electric Company of Puerto Rico, Inc., we desire to confirm the following accords:

1. Victor M. Garcia and Associates shall be in charge of the design work for the electrical, mechanical and fire sprinkler systems.
2. Sam P. Wallace shall act as construction coordinator. Also, all information required from you by the designer shall be submitted to him through us.
3. You shall submit your drawings to us not later than Friday, October 15.
4. Sam P. Wallace shall set-up a meeting with Victor M. Garcia during the week of October 18.

Very truly yours,

Jose R. Lebron  
Staff Engineer

JRL/lmr

cc: Mr. Peter Mackey, Digital Equipment Corp.  
Eng. Juan Garcia, Lord Electric Co. of P. R., Inc.

*P II**X.R. Contracts***SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

September 10, 1971

Digital Equipment Company  
146 Main Street  
Maynard Massachusetts

Attention: Mr. Peter Mackey

Reference: Digital Equipment Plant  
San German, Puerto Rico  
Our Job No: 308

Dear Mr. Mackey:

Pete Gonzalez informed me that you had a lower price on the air conditioning. Peter, there is always a lower price, on anything - Our price to you was \$75,000.00, you said you had a stateside price of \$68,707.00, a difference of \$6,293.00. You add the cost of the local engineering design, the Municipal tax, contractor's licensing, permits, the added plenums and you more or less arrive at the same figure.

Due to the type of contract we have with you, a guarantee maximum, you will share in 60% of the savings.

To bring you up to-date be advised of the following:

1. Both Lord and ourselves have started the design evaluation.
2. The air conditioning equipment has been ordered.
3. Lord has ordered their equipment.
4. The Sprinkler drawings are about finished and will be forwarded to F. I. A. shortly for approval.

Would appreciate receiving the retainage on the previous

Continued on page No: 2

Digital Equipment Company  
Page No: 2  
September 10, 1971



SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.

project in the sum of \$12,098.00. We need the money.

Very truly yours,

Alfonso A. Rodriguez  
President

AAR/jc

cc: Mr. Pedro Gonzalez  
cc: Mr. Angelo Pardo, Jr.

Date: 8-31-71

## WORK AND MATERIAL CONTRACT WITH MAXIMUM PRICE

TO: DIGITAL EQUIPMENT CORPORATION

### PROPOSAL:

On the premises located at Plant described as Building No: 4, in San German, Puerto Rico

We herewith propose to furnish, as specified below, and subject to the General Conditions herein, all labor and material, and perform all said work in a good and workmanlike manner, for the construction, installation and completion of Plant described as building No: 4 - Work as described in Wallace presentation of August 26, 1971, in the office of Digital Equipment Corporation in Maynard, Mass. In addition, the contract will include the following items.

1. 4 - Fire Hose Station inside of building. ✓ 1200
2. 4 - Air Dampers for A/C Units. 900
3. 12 - Air Plenums with double deflections grilles - See attached Exhibit A.

### CONTRACT AMOUNT:

The work described above shall be performed for the sum of \$ 348,775.00 , designated the maximum price. The cost of the work shall be the sum of the following:

- a) The actual cost of material, equipment, labor, and such other cost items applicable to the work, as hereinafter defined and qualified, plus 12% to cover overhead, plus 10 % of the aggregate to cover profit.
- b) The actual cost of all sub-contracts, plus 5 % to cover overhead.

In the event the actual cost of the work is less than the maximum price, the Buyer will pay to the contractor 40% of the difference between the maximum price and the actual cost, in addition to the costs as defined in (a) and (b) above, as additional compensation.

In the event the actual cost of the work exceeds the maximum price, such excess cost shall be borne by the contractor.

### PAYMENTS:

Terms of payment shall be as follows: Contractor will present invoice on or about the 15th of each month for approval. Buyer will pay Contractor 15 days after presentation of Invoices. No retainage will be held from the Contractor.

# Sam Wallace

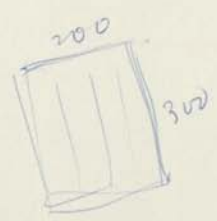
## Puerto Rico

Compendium  
 Proposal on  
 Air Conditioning  
 XR Air Conditioning

~~College Notes~~

Elect	15
Part	10
Air	25
50m	30
	<hr/> 80

12  
15



300  
 60,000  
 60

25  
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2

2000  
 100

2000,000

300  
 20  
 60,000  
 12,000

PROPOSAL  
FOR  
DIGITAL EQUIPMENT CORPORATION  
PLANT # 3  
SAN GERMAN, PUERTO RICO





**SAM P. WALLACE & COMPANY  
OF PUERTO RICO, INC.**

April 30, 1969

Digital Equipment Corporation,  
146 Main Street  
Maynard, Massachusetts 01754

Attention: Mr. Allen W. Hanson

Dear Mr. Hanson:

We are pleased to quote you for the supply, relocation and installation of air conditioning equipment at the Digital Equipment Corporation Plant #3 in San German, Puerto Rico; consisting of supply and installation of (14) fourteen Trane model SH 1504 horizontal packaged climate changers each complete with supply-return filter casing, concentric supply-return diffuser and 2 stage thermostat and connecting duct. Removal of 10 Carrier self-contained packaged air conditioning units from plants #1 and #2 transporting same to new location and reinstall in new plant #3.

All as per your blue print sheet #1 of 1 project # S-974-69 of March 10, 1969 and as per letter of April 9 with follow-up of April 17 from you to Sam P. Wallace & Co. of P. R.

For the cost of:

\$68,474.22

The following is not included in our proposal:

- 1) Insular excise tax.
- 2) Performance and payment bond (will be furnished at your request and cost.)
- 3) Any electrical work other than installation of thermostats, conduits for thermostats control wiring by others.

Delivery of equipment to job-site will take approximately 8 weeks from day order is placed with factory.

Installation of equipment will take 6 - 8 weeks.

We thank you for been given the opportunity to quote and hope that we can be of further service to you.

Sincerely yours,

*Hans J. Kohler*  
Hans J. Kohler

*Carrier 500A016  
additional \$900<sup>00</sup>*

*Yanco - supply 2x10  
for call.  
no bolting  
chilled water system  
100K +*

*all rigging  
\$1,000,000 ins.*

**digital**

April 9, 1969

Sam P. Wallace & Co. of Puerto Rico, Inc.  
Avenue Ponce de Leon HR  
San Juan, Puerto Rico



Dear Sirs:

Attached you will find a drawing entitled "Proposed Bldg. at San German Indust. Park, Air Conditioning, Plant No. 3", Drawing No. P. R. 3-1-2001-1/16D, Revision 3, showing the location of the air-cooled air conditioning units.

As you can see from the drawing, the units identified as (B) are 8 2/3 ton Carrier units which were previously installed in our other two plants in San German. We intend to take these ten units and re-install them in this new plant.

The balance of the units, identified on the drawing as (A) will be roof-top, 440 V, 3 phase units. I have notified Mr. Felipe Jimenez, Director of Design of PRIDCO, to provide the proper size openings for the ten wall units and the fourteen roof-top units, so that the installation will not require any structural changes.

I would like a quotation from you based upon the equipment specified or something comparable, such as Carrier. Include all rigging and installation, but do not include the electrical work, as this will be done by our electrical contractor.

You may contact Mr. Jacques Dreyfuss, of Trane Western Hemisphere, if you have any questions pertaining to the Trane equipment or its delivery.

Sam P. Wallace & Co. of Puerto Rico, Inc.  
Page 2 April 9, 1969

If it would be to our advantage to use Carrier in lieu of Trane equipment, please notify me immediately, so that I can make the necessary structural changes to the building.

I would appreciate your immediate attention to this matter. If you have any questions, please feel free to write or call me at any time.

Sincerely yours,

*Allen W. Hanson*

Allen W. Hanson Co. of Puerto Rico, Inc.  
Plant Engineer April 9, 1969

Enclosures

AWH/rtc

ould be to our advantage to use Carrier in lieu of Trane equipment, please notify me immediately, so that I can make the necessary structural changes to the building.

I would appreciate your immediate attention to this matter. If you have any questions, please feel free to write or call me at any time.

Sincerely yours,

Allen W. Hanson  
Plant Engineer

Enclosures

AWH/rtc

digital

April 17, 1969

April 17, 1969

Sam P. Wallace & Co. of Puerto Rico  
Avenue Ponce de Leon, HR  
San Juan, Puerto Rico

Gentlemen:

Attached you will find a diagram of the diffuser to be used with the Trane air-conditioning equipment we plan on installing in our new plant in San German, Puerto Rico.

If you have any questions, please feel free to write or call me at any time.

Sincerely yours,

*Allen W. Hanson*

Allen W. Hanson  
Plant Engineer

AWH/rtc  
Enclosure

Allen W. Hanson  
Plant Engineer

AWH/rtc  
Enclosure



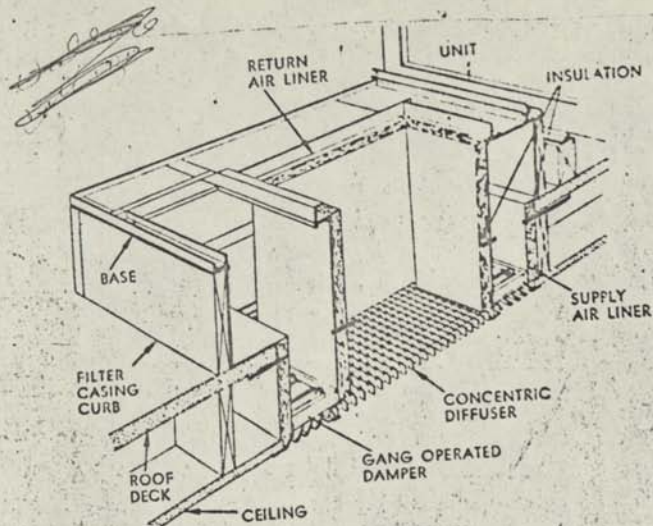
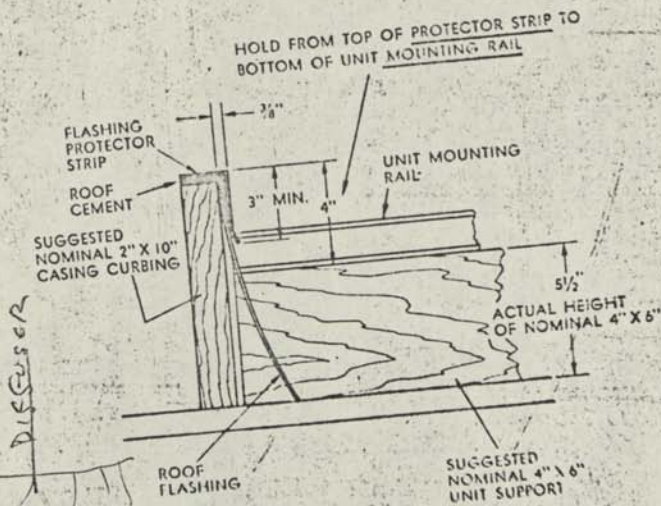


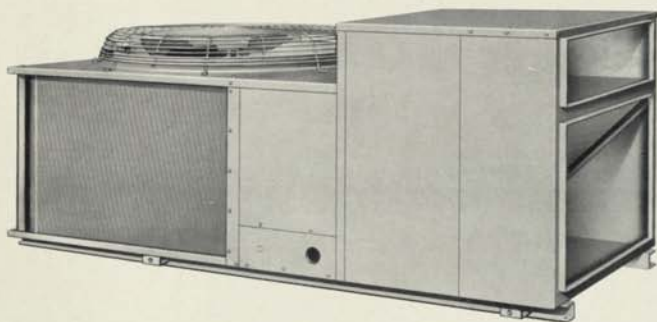
FIGURE 20 - Concentric Diffuser Installation, SF or SH 10 - 12½ - 15.

HOLD FROM TOP OF PROTECTOR STRIP TO  
BOTTOM OF UNIT MOUNTING RAIL



FLASHING DETAILS  
FOR SH10-15 UNITS

Curb Flashing Details.



MODELS:

SH100

SH125

SH150



SP-370C

## COMMERCIAL, DUAL-CIRCUITED AIR CONDITIONING

Trane SH100, 125 and 150 Horizontal Packaged Climate Changers are single package, double-circuited cooling units for use in one- and two-story, light commercial applications. They can be used with separate heating systems or in conjunction with Model SF combination heating/cooling units where the cooling to heating ratio is high. Dual refrigeration circuits allow 50 percent capacity modulation and standby capacity.

Features of the SH100, 125 and 150 include the Trane-exclusive J-23 compressor, high and low pressure controls and integral pumpdown.

The precision-built J-23 compressor and motor are hermetically sealed in a single unit. Factory dehydrating and sealing prevent contamination. The compressor is guarded by automatic safety controls and covered by a 5-year warranty.

Both high and low pressure controls are standard in Horizontal Packaged Units. The high pressure controls prevent compressor motor overload by stopping system operation when discharge pressure exceeds safe operating limits.

For further reliability and assurance of proper operation, the SH100, 125 and 150 units have automatic, non-recycling pumpdown. This pumpdown cycle continues compressor operation after the thermostat has been satisfied, allowing refrigerant to be pumped out of the low side of the system.

In addition, each Horizontal Packaged Unit is available in a variety of electrical characteristics and with a large array of accessories, to allow a greater range of application.

## MECHANICAL SPECIFICATIONS

**GENERAL** Horizontal Packaged Climate Changers have all components assembled in one compact, weatherproof cabinet, mounted on a common base. Units operate at outdoor ambients to 120 F and comply with ARI Standard 210, National Rating Standard of the Air Conditioning and Refrigeration Institute. Outdoor installation at grade level or on building roof. Maximum unit height, 44 inches.

**CASING** Phosphatized zinc-coated steel with epoxy resin primer (exterior surfaces). Baked grey-green enamel finish. Full-length mounting rails with lifting lugs as standard. One-inch glass fiber insulation in evaporator section.

**CONDENSER FAN** Belt-driven, weatherproofed and statically and dynamically balanced. Heavy-duty motors have permanently lubricated ball bearings and built-in thermal overload protection. Fan shaft and motor bearings are sealed for outdoor service. Upflow fans discharge vertically.

**COMPRESSORS** Model J-23 hermetic welded-shell type. Factory dehydrated and sealed. All compressors of heavy-duty heat pump design, complete with anti-slugging devices. Crankcase heaters included as standard.

Two compressors in 10, 12½ and 15 ton units, with dual contactors and refrigeration controls.

**CONDENSING COIL** Primary surface ¾ inch OD seamless copper tubes. Secondary surface heavy aluminum fins of Sigma-Flo design, mechanically bonded to tubes. Coil casing 18-gage galvanized steel. One row, double-circuited coil, factory pressure and leak tested at 425 psi.

**EVAPORATOR COIL** Primary surface ¾ inch OD seamless copper tubes. Secondary surface heavy aluminum fins of Sigma-Flo design, mechanically bonded to tubes. Two row, double-circuited coil, factory pressure and leak tested for 300 psi low side operating pressure. Two expansion valves.

**EVAPORATOR FANS** Belt-driven, forward-curved centrifugal fans with adjustable motor sheaves as standard. Motor and fan bearings permanently lubricated ball type. Thermal overload protection in motors.

Two galvanized fan wheels in 10, 12½ and 15 ton units.

**DRAIN PANS** Evaporator and condenser sections have separate drain pans. Evaporator drain pan internally sealed and insulated. Drain connections in evaporator section; drain openings in condenser section.

**REFRIGERATION CIRCUIT** The 10, 12½ and 15 ton units have two independent refrigeration circuits. Liquid

accumulator provided in piping of each circuit. Sub-cooling and automatic non-recycling pumpdown system standard on each circuit. Front-seating type service valves with gage ports. Factory installed filter-drier and complete operating charge of Refrigerant-22 in each circuit.

**CONTROLS** Mounted in separate weatherproof panel on side of unit. Independent control box access panel. Line

and 24-volt control voltage connections at control panel.

Standard controls include compressor contactors, condenser and evaporator fan contactors, 24-volt transformer and low pressure cutout. Safety controls include high pressure cutout, compressor overloads and winding thermostat. Reset relay prevents unit cycling on safety controls. If operating conditions trip any safety control, unit must be manually reset at thermostat.

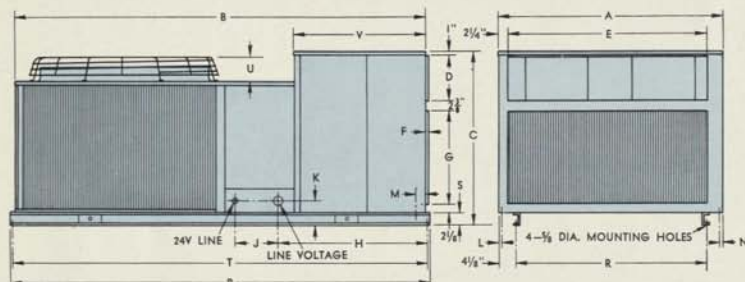


TABLE 1—Model SH100, 125 and 150 Dimensions

MODEL	WIDTH		DEPTH	HEIGHT			AIR SUPPLY			AIR RETURN			ELEC. CONN.			DRAIN CONN.			BASE				LENGTH OF EVAP. SECTION	DRAIN SIZE CONN.	NET WT. LBS.
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V				
SH100	56 1/4	93 1/2	39	10 1/4	49 1/4	3/4	19 1/4	49 1/4	3/4	30 1/4	9	5 1/4	3/4	1	3/4	96 1/4	48	3	94 1/4	5 1/4	29 1/4	3/4	1100		
SH125	56 1/4	104 1/4	41	11 1/4	49 1/4	3/4	20 1/4	49 1/4	3/4	33 1/4	9	5 1/4	3/4	1 1/4	123 1/4	48	3	105 1/4	5 1/4	32 1/4	3/4	1250			
SH150	56 1/4	104 1/4	44	11 1/4	49 1/4	3/4	23 1/4	49 1/4	3/4	46 1/4	9	5 1/4	2 1/4	2 1/4	107 1/4	48	3	105 1/4	8 1/4	33 1/4	3/4	1450			

NOTE: All dimensions approximate. Certified drawings on request.

TABLE 2—Model SH100, 125 and 150 General Data

MODEL	COOLING CAPACITY		EVAPORATOR FANS (2)				CONDENSER FAN			REFRIGERANT		SUCTION TEMP. (A)	COND. TEMP. (A)	KW INPUT (A)
	MBH (A)	(B)	NOMINAL CFM	DRIVE	NOMINAL RPM	RPM RANGE	NOMINAL CFM	DRIVE	NOMINAL RPM	TYPE	CHARGE PER CIRCUIT			
SH100	120.0	4000	BELT	910	751-1062	12,000	BELT	580	R-22	7 1/2 LBS.	39.6	125.0	17.3	
SH125	151.0	5000	BELT	948	805-1095	13,900	BELT	665	R-22	9 LBS.	40.4	127.0	22.1	
SH150	180.0	6000	BELT	1036	905-1165	21,600	BELT	567	R-22	10 1/2 LBS.	40.9	125.0	26.5	

(A) At ARI conditions of 80 F DB/67 F WB and 95 F outdoor ambient air.

(B) Subtract 2.0 MBH for 208 volt operation.

TABLE 3—Standard Motor Electrical Characteristics (60 Cycle, 3 Phase)

MODEL	COMPRESSOR MOTORS (A)						CONDENSER FAN MOTOR						EVAPORATOR FAN MOTOR						SYSTEM MAX. START AMPS
	HP	RPM	VOLTS	AMPS (B)			HP	RPM	VOLTS	AMPS (B)		HP	RPM	VOLTS	AMPS (B)				
				FL	LR	MAX. START				FL	LR				FL	LR			
SH1003	5	3600	208/240	48.6	236.0	142.3	1 1/2	1725	208/230	5.0	34.0	1 1/2	3450	208/230	4.6	35.0	187.0		
SH1004	5	3600	440/480	24.4	124.0	74.4	1 1/2	1725	440	2.5	17.0	1 1/2	3450	440	2.3	18.0	97.0		
SH1253	6 1/2	3600	208/220	59.6	286.0	162.8	2	1725	208/230	6.4	42.0	2	3450	208/230	5.6	40.0	215.0		
SH1254	6 1/2	3600	440	29.8	133.0	81.4	2	1725	440	3.2	21.0	2	3450	440	2.8	20.0	107.5		
SH1503	7 1/2	3600	208/220	80.0	310.0	195.0	3	1725	208/230	8.6	57.0	3	3450	208/230	7.6	56.0	268.0		
SH1504	7 1/2	3600	440	40.0	155.0	97.5	3	1725	440	4.3	29.0	3	3450	440	3.8	28.0	134.5		

(A) Two compressors per unit.

(B) FL amps based on a voltage 10 percent below lowest rated voltage and at maximum compressor load conditions of 120 F condensing ambient.

LR amps based on highest rated voltage of compressor motor.

Maximum compressor starting current for 10-15 ton dual compressor units is achieved when one compressor is running and the second compressor is starting.

©1967 The Trane Company

PRINTED IN U.S.A. SP-370C-20-567-WFK

Since The Trane Company has a policy of continuous product improvement, it reserves the right to change design and specification without notice.

**TRANE**

MANUFACTURING ENGINEERS  
OF AIR CONDITIONING,  
HEATING, VENTILATING AND  
HEAT TRANSFER EQUIPMENT

THE TRANE COMPANY—LA CROSSE, WISCONSIN 54601



FIGURE 1  
Supply-Return Filter Casing  
With Outside Air Intake.

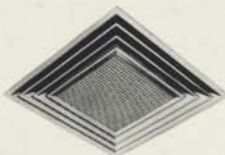


FIGURE 2  
Concentric Supply-Return  
Diffuser.



FIGURE 3  
Indoor Thermostat  
And Subbase.



FIGURE 4  
Automatic Head Pressure  
Control Damper.

STANDARD OVERSIZE  
INDOOR FAN MOTORS  
THREE METHODS OF CONTROL  
FOR OUTSIDE AIR  
— MANUAL  
— REMOTE  
— AUTOMATIC ECONOMIZER

SPECIFICATION  
SHEET  
SP 370CX

JAN. 1967

ACCESSORIES  
FOR  
MODELS  
SH-100  
SH-125  
SH-150

## MECHANICAL SPECIFICATIONS

**Supply-Return Filter Casing.** For direct attachment to units and supply and return ductwork extending through roof. Exterior and interior panels have 1-inch mat faced, glass fiber insulation. One-inch throwaway filters included with casing. Filters fit in racks inside casing and are accessible through gasketed access panel. Casing shipped knocked down for field assembly.

**Manual Outside Air Damper Package.** For use with supply-return filter casing. Damper position set at unit for 0-100% outside air. Includes outside and return air dampers, necessary linkage, outside air intake with filters, manually-locked positioning lever and low ambient compressor shutoff thermostat.

**Separate Remote Damper Control Package.** Used in conjunction with manual outside air damper for positioning from conditioned space. Includes damper motor, necessary linkage and indoor rheostat for 0-100% positioning of outside air damper.

**Automatic Economizer Control Package.** Used with manual outside air damper package. Cooling with up to 100% outside air when outdoor ambient below required indoor temperature. Outdoor thermostat determines outside air damper opening point. Last stage of indoor thermostat energizes refrigeration cycle when outside air temperature not low enough to maintain required

indoor temperature. Includes damper motor, 0-100 F outside air limit control, 40-80 F mixed air control and necessary linkage as standard. Optional rheostat is available for minimum outside air control from conditioned space.

**Concentric Supply-Return Diffuser.** For mounting in conditioned space. Square-shaped, extruded aluminum diffusers complete with adjustable, gang-operated directional air dampers. Contractor responsible for transition and connecting ductwork between casing and diffuser.

**Low Ambient Operation.** At either full or part load. Unit operates to 65 F without accessories, to 45 F with time delay timer, and to 0 F with timer and automatic head pressure control damper. For additional information refer to Automatic Head Pressure Control Damper specification sheet.

**Indoor Thermostat and Subbase.** For mounting in conditioned space. Available with two stages of cooling or with two stages of heating and two stages of cooling.

**Oversized Indoor Fan Motor Package.** For CFM greater than nominal or high static pressure applications. Motor has permanently lubricated bearings and thermal overload protection. Package includes drive, when needed.



FIGURE 5—Supply-Return Filter Casing For Models SH-100, 125 And 150. Illustrated With Outside Air Intake And Dampers.  
Note: Roof Opening And Curb Dimensions With Duct Connections.

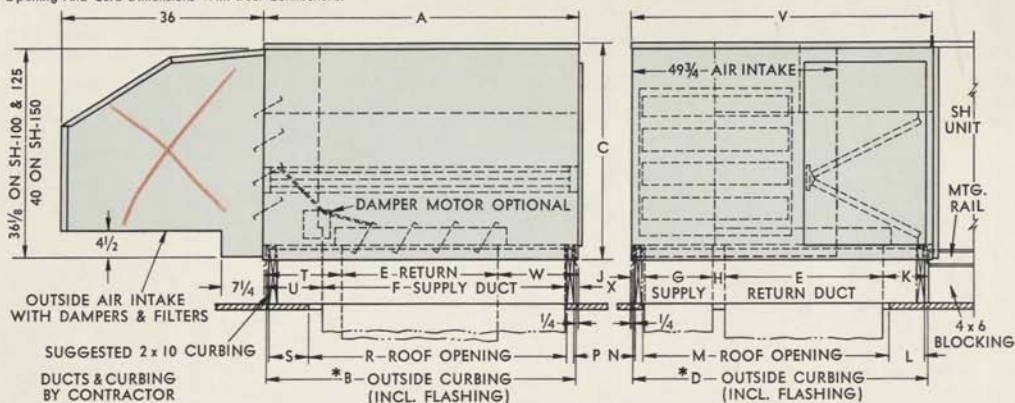


TABLE 1—Dimensions For Supply-Return Filter Casing. Includes Roof Opening And Curb. Dimensions When Using Ductwork.

UNIT	A	B*	C	D*	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X	FILTERS NO. - SIZE
SH100	54 $\frac{3}{8}$	53 $\frac{3}{8}$	37 $\frac{1}{2}$	53 $\frac{1}{8}$	27 $\frac{1}{4}$	42	12	2	2	10 $\frac{3}{8}$	8 $\frac{3}{8}$	42 $\frac{3}{4}$	1	1	43 $\frac{1}{2}$	8 $\frac{3}{8}$	13 $\frac{1}{2}$	10 $\frac{1}{4}$	55	13 $\frac{1}{2}$	2 $\frac{1}{2}$	4-20X25X1
SH125	60	59 $\frac{1}{4}$	39 $\frac{1}{2}$	53	27 $\frac{1}{4}$	48	12	2	2	10 $\frac{3}{8}$	9	42 $\frac{3}{4}$	1	1	49 $\frac{1}{2}$	8	16 $\frac{3}{8}$	9 $\frac{3}{8}$	55	16 $\frac{3}{8}$	2 $\frac{1}{2}$	6-20X20X1
SH150	72 $\frac{1}{2}$	71 $\frac{1}{4}$	42 $\frac{1}{2}$	64 $\frac{1}{4}$	33 $\frac{1}{4}$	54	16	2 $\frac{1}{2}$	2 $\frac{1}{4}$	10 $\frac{3}{4}$	9	53 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	55 $\frac{1}{2}$	13 $\frac{3}{8}$	18 $\frac{3}{8}$	18 $\frac{3}{8}$	66 $\frac{1}{4}$	23 $\frac{3}{8}$	2 $\frac{1}{2}$	3-20X20X1 3-20X25X1

\*B AND D ARE MAXIMUM DIMENSIONS. THEY MUST NOT BE EXCEEDED.

FIGURE 6—Supply-Return Filter Casing For SH-100, 125 And 150. Illustrated With Concentric Supply-Return Diffuser.  
Note: Roof Opening, Ceiling Opening And Curb Dimensions With Concentric Diffuser.

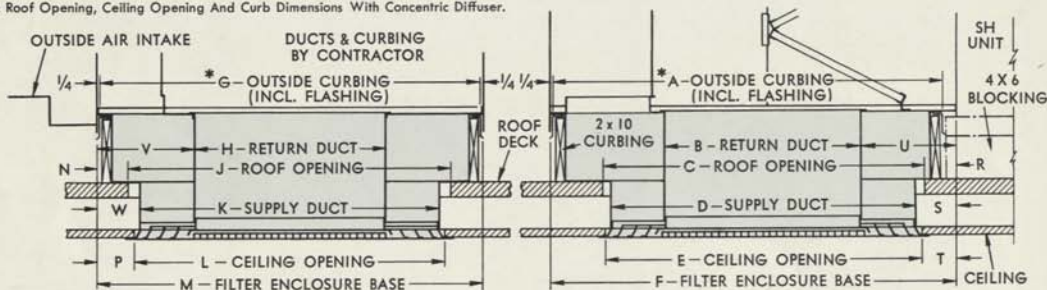


TABLE 2—Dimensions For Roof Opening, Ceiling Opening And Curb When Using Concentric Diffuser.

UNIT	A*	B	C	D	E	F	G*	H	J	K	L	M	N	P	R	S	T	U	V	W
SH100	53 $\frac{3}{8}$	26 $\frac{1}{8}$	44 $\frac{3}{8}$	42 $\frac{1}{4}$	43 $\frac{3}{8}$	54 $\frac{1}{8}$	53 $\frac{3}{8}$	26 $\frac{1}{8}$	45 $\frac{1}{2}$	42 $\frac{1}{4}$	43 $\frac{3}{8}$	54 $\frac{1}{8}$	4 $\frac{3}{8}$	5 $\frac{1}{4}$	3 $\frac{3}{8}$	4 $\frac{1}{8}$	3 $\frac{3}{8}$	11 $\frac{3}{8}$	13 $\frac{3}{8}$	6
SH125	53	26 $\frac{1}{8}$	44 $\frac{3}{8}$	42 $\frac{1}{4}$	43 $\frac{3}{8}$	54 $\frac{1}{8}$	59 $\frac{1}{4}$	26 $\frac{1}{8}$	45 $\frac{1}{2}$	42 $\frac{1}{4}$	43 $\frac{3}{8}$	59 $\frac{1}{4}$	7 $\frac{1}{8}$	8	3 $\frac{3}{8}$	4 $\frac{1}{8}$	3 $\frac{3}{8}$	11 $\frac{3}{8}$	16 $\frac{3}{8}$	8 $\frac{3}{8}$
SH150	64 $\frac{1}{4}$	32 $\frac{1}{2}$	50 $\frac{3}{8}$	48 $\frac{1}{4}$	49 $\frac{3}{8}$	66	71 $\frac{3}{8}$	32 $\frac{1}{2}$	51 $\frac{1}{2}$	48 $\frac{1}{4}$	49 $\frac{3}{8}$	72 $\frac{1}{4}$	6 $\frac{3}{8}$	7 $\frac{1}{2}$	3 $\frac{3}{8}$	4 $\frac{1}{8}$	3 $\frac{3}{8}$	12 $\frac{1}{2}$	15 $\frac{3}{8}$	8 $\frac{3}{8}$

\*A AND G ARE MAXIMUM DIMENSIONS. THEY MUST NOT BE EXCEEDED.

FIGURE 7—Concentric Supply-Return Diffuser.

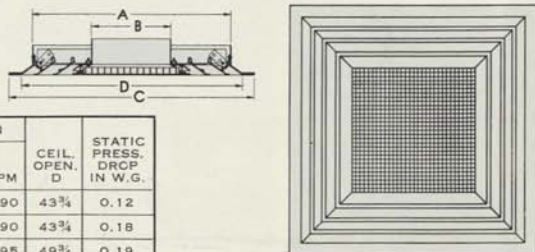


TABLE 3—Dimensions For Concentric Supply-Return Diffuser.

USED WITH	NOM. C.F.M.	SUPPLY CONN. A	RE-CONN. TURN B	SUPPLY			RETURN		CELL. OPEN. D	STATIC PRESS. DROP IN W.G.	
				FACE AREA	FPM	THROW EACH SIDE	FACE AREA	FPM			
SH100	4.000	42X42	27X27	47 $\frac{1}{2}$ X47 $\frac{1}{2}$	7.20	555	26	5.06	790	43%	0.12
SH125	5.000	42X42	27X27	47 $\frac{1}{2}$ X47 $\frac{1}{2}$	7.20	695	32	5.06	990	43%	0.18
SH150	6.000	48X48	33X33	53 $\frac{1}{2}$ X53 $\frac{1}{2}$	8.44	710	36	7.56	795	49%	0.19

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Since The Trane Company has a policy of continuous product improvement, it reserves the right to change specifications and design without notice.

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MANUFACTURING ENGINEERS OF AIR-CONDITIONING, HEATING, VENTILATING AND HEAT TRANSFER EQUIPMENT.