

REDACTED

981834-TP

Description	HPU	Labor Group
TERMINATE SWB CABLE (.025 PER END)		
RUN & SECURE SWB/SHIELD/COAX CA/INNERDUCT (.025/FT)		
TERMINATE SHIELD/COAX CA. (.25 PER END)		
RUN & SECURE PWR CA 250 TO 1000 (.25 PER FT)		
TERM PWR CA 250 TO 1000 (.75 HRS PER TAP)		
ERECT RELAY RACK (3 HRS/RACK)		
ERECT SUPER STRUCTURE (.3 HRS/FT.)		
TRAVEL TIME - INSTALLATION		

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

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DOCUMENT NUMBER-DATE  
08551 SEP 10 4  
FPSO-COMMISSION CLERK

Verizon: EIS Cost Study - Florida  
 Material Loadings

FACT-FINDER 1998  
 MATERIAL LOADING FACTORS

State	Description	Supply	Minormat	Matload
FL1G	CKT	Circuit		
FL1G	COE	Central Office Equipment		
FL1G	FIBC	Fiber Cable		
FL1G	METC	Metallic Cable		

State	Description	Freight	Sales tax	Provisioning
FL1G	CKT	Circuit		
FL1G	COE	Central Office Equipment		
FL1G	FIBC	Fiber Cable		
FL1G	METC	Metallic Cable		

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

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Verizon: EIS Cost Study - Florida  
Monthly Recurring Costs  
Annual Cost Factors (ACFs)  
Rate of Return = 12.7373%

Account	Description	Capital Recovery	Composite Tax	Pool Factor	Property Tax	Total ACF
211100	Land					
212100	Buildings					
221200	Digital Electronic Switching					
223200	Circuit Equipment					
242210	Underground Cable-Metallic					
242220	Underground Cable-Fiber					
244100	Conduit Systems					

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Highlighted information is redacted for reason #2. Parties may obtain this information by signing a non-disclosure agreement.

AREA: SOUTH  
STATE: FLORIDA/GTECC  
OP GROUP: 95F/951

VERIZON TELEPHONE OPERATIONS  
LABOR AND OVERHEAD RATES  
YTD CALCULATED RATES THRU DEC-1997

Labor Group	Direct Basic	Direct Support	Direct Superv	Overtime Premium	Paid Absent	Indirect Sup/Supv	Indirect Sup/Supv	Indirect Sup/Supv	Direct Dept	Indirect Dept	Indirect Dept	Indirect Dept	Benefits	Tools	Motor Vehicle	Non-Tbl Dispatch	Fully	Incremental
																	Loaded Rate	Rate
011 - EQUIP ENG / L & B																		
021 - OUTSIDE PLANT ENGR																		
031 - SALES ENGR																		
101 - EQUIP INSTALL																		
111 - CONSTR PLACER																		
121 - CONSTR SPLICER																		
201 - I&R/MAINT SPLICER																		
211 - SWITCHING SVC																		
221 - PBX INSTAL & MAINT																		
231 - COIN COLL/MAINT																		
241 - FACILITIES TECH																		

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Verizon: EIS Cost Study - Florida  
Loaded Labor Rates

Highlighted information is redacted for reason #2. Parties may obtain this information by signing a non-disclosure agreement.

STATE	JOBTITLE	BASERATE	PAID ABSENCE	SUPERVISION	TOTAL LABOR RATE	BENEFITS	MISC.	MICS	LOADED RATE
FL	Clerk								
FL	04								

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Verizon: EIS Cost Study - Florida

Non-Recurring Costs

Facility/Power Cable Pulls

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Facility Pull - Transmission - Power/Ground Line Run and Installation Details

Ln	Description	Length in	Hours per	Total	Loaded	Cost
		Feet- (Ln 1-2)	Foot (Ln 1-2)			
		Terms- (Ln 3-6, 9)	Terms- (Ln 3-6, 9)	Hours	Labor Rate	
		A	B = Note 2	C = A * B	D = Note 1	E = C * D
1	Telecommunications Facility Pull Cost					
2	Power/Ground Cable Pull Cost (Note 5, 7)					
	Termination.					
3	DS-0 (100 pair DS0s) (C) (Note 4)					
4	DS1 (28 pair DS1s) (C) (Note 4)					
5	DS3 (1 DS3) (C) (Note 4)					
6	DS-3 (UC) (Note 4)					
7	Per Fiber (48 fiber cable or less) (Note 6)					
8	Per Fiber (greater than 48 fiber cable) (Note 6)					
9	Power Cable (2 terminations per cable)					
10	Shielded Cable					
11	Engineering Facility Termination (Note 3)					
12	Engineering Power Termination (Note 3)					
13	Travel Time					
14	DS0 Termination to OSP Connector at MDF (Vertical side) <sup>8</sup> (UC)					
15	DS1 Termination to OSP Connector at MDF (Vertical side) <sup>8</sup> (UC)					

Note 1: The source for the Loaded Labor Rates is referenced in Loaded Labor Rates - 1. 101 - Equipment Installer, 011 - Equipment Engineer..

Note 2: Hours per unit were obtained from reference HPU-1.

Note 3: Source for these hours comes from the ICGS System. The ICGS system produces work estimates for Verizon engineers when creating work orders.

Note 4: "C" designates the cable with a connector, "UC" designates a cable without a connector.

Note 5: Cable pull is 1 cable. It takes 2 cable pulls for a circuit (+) and (-).

Note 6: Fiber terminations are SSP rates.

Note 7: Power cable costs are for all sizes.

Note 8: This termination (wire wrap) is for a 100 pair and 28 pair switchboard cable to the central office side of the connector (vertical side of the frame).

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Verizon: EIS Cost Study - Florida  
Non-Recurring Costs  
Summary of Costs

Description	Cost	Mat'l Loadings Factor	Mat'l Loadings Cost	Extended Cost
<b>Ground Cable</b>				
Wire Ground #6 (per foot)				

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

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Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 DC Power Facility

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Ln	Description	Source	Power Supply Cost (per 1 amps) A	BDFB Fuses and Fuses Panels (per 1 amps) B	Power Cable Pull (per 1 amps) D
1	Equipment Investment	DC Power Facility-5,2			
2	Material Loadings Factor	Mat Loadings			
3	Material Loadings	Ln 1 * Ln 2			
4	Engineering & Installation	DC Power Facility-5,2,4			
5	Total Investment	Ln 1 + Ln 3 + Ln 4			
6	Annual Cost Factor	ACFs			
7	Total Annual Costs	Ln 5 * Ln 6			
8	Floor Space Cost per BDFB	DC Power Facility-3			
9	Monthly Cost	Ln 7 / 12 + Ln 8			

Note: The material loading for Power Supply Costs are applied when calculating the cost per amp; see DC Power Facility - 6.



Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 DC Power Facility - BDFB Costs

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Ln	Description	Source	Calculation
<b>BDFB Power Cable Cost</b>			
<b>Material</b>			
1	Fuses & Fuse Panels (per 1 amps)	DC Power Facility - 3	
2	Power Cable (per 1 amps)	DC Power Facility - 3	
3	Total Material		
<b>Labor</b>			
3	Engineering/Installation	DC Power Facility - 3	
4	Central Office Core Drill	Note 1	

Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 DC Power BDFB Material/Labor Cost

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Ln	Description	Source	Hours	Rate	Total Cost	Unit Cost A = Note 1	Quantity B = Note 1	Calculation C= A * B
BDFB Material								
1	Fuse and Fuse Position	Note 1						
2	Floor Space Cost per Relay Rack							
3	Two BDFBs per Relay Rack							
4	Floor Space Cost per BDFB							
Labor								
5	Engineer							
6	Installation							
7	Total Labor							
8	Power Cable Costs	Note 2						
9	Connector Taps							
10	Total							

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

DC Power Cable Pull							
Ln	Description	Total Hours A = Note 2	Loaded Labor Rate B = Note 1	C = Quantity	Cost D = A * B * C	Cost/Amp E = D / 480	Cost / 1 Amps F = E * 1
1	Pull Power Cable						
2	Place Connector Taps						
3	Total						

Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 DC Power Facility - Equipment and Labor Costs

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Verizon Engineering Planning Guidelines

	Line Size	Power Equipment					Supply/ Total Sales Tax	Labor	EF&I	Per Line
		Rectifier	Batteries	Pwr Bd	Misc	Inverter				
Small Switch	Up to:									
Medium Switch	Up to:									
Large Switch	Up to:									
Remotes										
Small	Up to:									
Large	Up to:									

Group	Function	Labor Rate	Labor and Labor Rates		
			Small Sw	Medium Sw	Large Sw
			Hours	Hours	Hours
Planning (011)	Planning				
Network Engineering (011)	Hardware Eng				
COEI (101)	Installation				
Maintenance (211)	Service Work				
Totals					

Supply & Sales Tax

Power Investment Per Cost Study Line Size

Base/Host					Remote					Mapping Criteria
Size	Pwr Eqpt	Pwr Labor	Supply/Tax	Total EF&I	Size	Pwr Eqpt	Pwr Labor	Supply/Tax	Total EF&I	

+add'l pwr bd

B:

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Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 DC Power Utility

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Ln	Description	Source	Calculation
1	Amperage Rating of Equipment (AMPS)		
2	Voltage Rating of Equipment (Volts)	DC Power Utility - 2	
3	Equipment Power Requirement	(Ln 1 * Ln 2) / 1000	
4	Florida Cost of Commercial Electricity (\$/KWH)	DC Power Utility - 3	
5	Hourly Cost to Power Equipment	Ln 3 * Ln 4	
6	Hours per Day		
7	Days per Year		
8	Annual Cost to Power Equipment	Ln 5 * Ln 6 * Ln 7	
9	Efficiency and Heat Loss Factor	DC Power Utility - 2	_____
10	Annual Power Cost Corrected for Power Loss	Ln 8 * Ln 9	_____
11	Monthly Power Cost	Ln 10/12	

Verizon: EIS Cost Study - Florida  
Monthly Recurring Costs  
DC Power Utility

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

DC Power Engineering Calculations:

Efficiency & Heat Loss Factor

Ratio Formula: Power In divided by Power Out (PI/PO)

Power In

Power Out

Ratio

Verizon: EIS Cost Study - Florida  
Monthly Recurring Costs  
Cost per Kilo Watt Hour

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

State	1999 Cost Per kwh
AL	
AR	
AZ	
CA	
FL	
HI	
IA	
ID	
IL	
IN	
KY	
MI	
MN	
MO	
NC	
NE	
NM	
NV	
OH	
OK	
OR	
PA	
SC	
TX	
VA	
WA	
WI	

Source: Verizon Utility Deregulation Group

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Verizon: EIS Cost Study - Florida  
Monthly Recurring Costs  
Environmental Conditioning

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Description	Cost
Average Cost of HVAC per Amp	
Adjustment to Make National Average Specific to Florida (-10%)	
Florida Cost	
Annual Cost Factor	
Total Annual Cost per Amp	
Monthly Cost per Amp	
Monthly Cost per 1 Amps	\$2.07

Source:



Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 Floor Space - Square Footage Calculation

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Ln	Description	Source	Width in inches	Depth in inches	Destination
<u>Floor Space for Relay Rack Calculation</u>					
1	Front of Rack (24 15/16" wide)	Note 1			
2	Inside Distance of Rack (guardrail to guardrail)	Note 1			
3	Front Half-Distance Between Aisles (guardrail to guardrail)	Note 1			
4	Rear Half-Distance Between Aisles (guardrail to guardrail)	Note 1			
5		Width and Depth in Inches			
6		Conversion to Feet			
7	Square Feet per Linear Foot	Ln 6			
8	CO Floor Space Cost per Square Feet per year	Floor Space - 3			
9	Shared Access Additive Cost per Square Foot per year	Floor Space - 4			
10		Ln 8 + Ln 9			
11		Ln 10 / 12			
12	Floor Space for Relay Rack incl. Shared Access Area (per linear ft. per month)	Ln 7 * Ln 11			Summary - 1
13	Floor Space Cost for Relay Rack incl. Shared Access Area (per linear ft. per month)	Ln 6 * Ln 12			

Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 Floor Space - Square Footage Calculation

Ln	Description	Source	Width in inches	Depth in inches	Destination
<u>Floor Space for Cabinet Calculation</u>					
14	Front of Cabinet	Note 1	29.00		
15	Side of Cabinet	Note 1		33.00	
16	Front Access Area	Note 1		18.00	
17	Rear Access Area	Note 1		18.00	
18		Width and Depth in Inches	Sum(Ln 13:Ln 16)	29.00	69.00
19		Conversion to Feet	Ln 17 / 12	2.42	5.75
20	Square Feet per Linear Foot	Ln 18		5.75	
21	CO Floor Space Cost per Square Foot per year	Floor Space - 3		\$25.67	
22	Shared Access Additive Cost per Square Foot per year	Floor Space - 4		\$2.00	
23		Annual Cost for Total Floor Space for Cabinet	Ln 21 +Ln 22	\$27.67	
24		Monthly Rate for Total Floor Space for Cabinet	Ln 23 / 12	\$2.31	
25	Floor Space for Cabinet incl. Shared Access Area (per linear ft. per month)	Ln 19 * Ln 24		\$13.26	Summary - 1

Note 1: The dimensions for floor space occupied by Relay Rack and Cabinet were obtained from the Network Design group.

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Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 DC Power Facility - Equipment and Labor Costs

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Description			Power Equipment		Power Labor	
CO Line Sizes	Amps	Line %	Power Equipment Cost	Cost per Amp	Power Labor Cost	Cost per Amp
	A	B	C	$D=(C/A)*B$	E	$F=(E/A)*B$
			Total per Amp			
			1 Amp Total			

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Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 Floor Space

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

CO Name	CLLI	State	Annual Cost Factor			Investment Present Value		Annual Maint & Utility		Annual Cost/sf		Subtotal Annual Cost/ J=G+H+I	Total Annual Cost/ sf K=Note 1
			Land	Building	Square Feet C=Note 1	Land	Building	Cost	Cost/ sf	Land	Building		
			A=ACFs-1	B=ACFs-1		D=Note 1	1	F=Note 1	G=F/C	H=D/C*A	I=E/C*B		

Average Cost (Mean) per Square Foot (Destination for Column K is Floor Space - 1)

Two Standard Deviations

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Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 Floor Space - Shared Access Area

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

No.	State	Total Square Feet	Square Root of Total	3'-0" Walkway	Restroom	Staging Area	Break room	Total Shared	Source
A		B	C	D	E	F	G	H	

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22

---

Percentage of Shared Access Floor Space to Total Floor Space		Ln 17H / Ln 17B
Cost per Square Foot of Central Office Floor Space		Floor Space - 3
Annual Cost per Square Foot of Central Office Floor Space with Shared Access added		Ln 19 / (1 - Ln 18)
Shared Access Additive Cost per Square Foot per year		Ln 20 - Ln 19
Monthly Cost per Square Foot		Ln 20 / 12

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Verizon: EIS Cost Study - Florida  
 Monthly Recurring Costs  
 Floor Space – HVAC Shell Cost Computation

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

CO Name	CLLI	State	Square Feet	Investment Present Value					
				Land	Building	Amount of Total Building Investment for HVAC	Tons of HVAC per Bldg Sq Ft. (Shell Costs)	HVAC Shell Cost	Total Bldg Investment
			C=Floor Space-3	D=Floor Space-3	E=Note 2	F=E*16%	G=C/432	H=G*\$2,525.16	I=E-F+H
						16%		\$ 2,525.16	

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**Input Sheet**

Highlighted information is redacted for reasons #3 and #4. Parties may obtain this information by signing a non-disclosure agreement.

Verizon: EIS Cost Study - Florida

**FLORIDA**

Florida

FL

Page Heading

Cover Page

TOC Heading

State Specific Adjustment Heading

State Specific Adjustment

Florida Cost per 100 Sq Ft

Florida Cost

Total Line

**Material Loadings -**

	Sales Tax	Provisioning	Minomat	Freight	Label
CKT					FL1G
COE					FL1G
FIBC					FL1G
METC					FL1G

Florida Cost of Commercial Electricity (\$/KWH)

KWH average per Florida

**Cable Space**

- Innerduct material cost - Cable Pull 1
- Duct material cost - Cable Space 3
- Subduct material cost - Cable Space 4
- Manhole material cost - Cable Space - 3
- Core Drill Cost
- Duct Installation cost - Cable Space 3
- Subduct Installation cost - Cable Space 4
- Manhole Installation cost - Cable Space - 3

**Floor Space**

CO Name	Two CLLI	# of Std Deviations Used State	Sq Ft	Common Area		Annual Util/Maint Cost
				Present Value Land	Building	

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Number of AMPS requested.

LP43C (Place fiber in conduit)  
 LP43A (Place metallic cable < 1.5)  
 LP43E (Place metallic cable > 1.5)  
 LS50A (Fiber Cable Splice)  
 LS02A (Metallic Cable Splice < 200pr)  
 LS02C (Metallic Cable Splice >200pr)

ACFs						
Account	Account Name	Capital Rec	Composite Tax	Pool Factor	Property Tax	
211100	Land					
212100	Buildings					
221200	Digital Electronic Switching					
223200	Circuit Equipment					
242210	Underground Cable					
242220	Underground Cable					
244100	Conduit Systems					

Floor Space continued

CO Name	CLLI	State	Sq Ft	Present Value		Annual Util/Maint Cost
				Land	Building	

LS50B (Fiber Cable greater than 48 fiber)

Rate of Return =

DC Power Facility - Weighted Average Costs

% lines	Pwr Labor	Pwr Equip
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DC Power Facility - Cost per Amp

BDFB  
 Power Cable  
 Connector Taps

REDACTED



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**Cable Vault Utilization - Monthly Cost per Cable**

**Metallic DS0 Cable - 1200 pair**  
**Metallic DS0 Cable - 800 pair**  
**Metallic DS0 Cable - 600 pair**  
**Metallic DS1 Cable**  
**Fiber Cable**

**REDACTED**

AREA SOUTH  
 STATE FLORIDA/GTECC  
 OP GROUP 9SF/9S1

VERIZON TELEPHONE OPERATIONS  
 LABOR AND OVERHEAD RATES  
 YTD CALCULATED RATES THRU DEC-1997

LABOR GROUP	DIRECT BASIC	DIRECT SUPPORTS	DIRECT SUPERV	OVERTIME PREMIUM	PAID ABSENT	INDIRECT SUP/SUPV	INDIRECT SUP/SUPV	INDIRECT SUP/SUPV	DIRECT DEPT	INDIRECT DEPT	INDIRECT DEPT	INDIRECT DEPT	BENEFITS	TOOLS	MOTOR VEHICLE	NON-TBL DISPATCH	FULLY LOADED RATE	INCREMENTAL RATE
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Highlighted information is redacted for reason #2. Parties may obtain this information by signing a non-disclosure agreement.

STATE	JOB TITLE	BASERA	ABSEN	SUPERV	LABOR	BENEFITS	MISC.	MICS	ED RATE
FL	Clerk								
FL	04								

REDACTED

## VZ FLORIDA DC POWER PLANT JOBS

### UNIVERSITY

A	B	C	D	E	F
ITEM	SOURCE	CONTRACT LABOR, MATERIAL, MISC., TAXES, ETC.	VERIZON LABOR & LOADINGS	MATERIAL, MISC., TAXES, ETC.	TOTAL
1 GENERATOR (2212.10)	VZ FLA - REO				
2 ELECTRICAL/FUEL TANK /OTHER (2121.10)	VZ FLA - REO				
3 TOTAL VZ FLA - REO	SUM LINES 1+ LINE 2				
4 TOTAL VZ FLA -COEI (2232.21)	VF FLA - COEI				
5 TOTAL VZ FLA - REO & COEI	SUM LINES 3 + LINE 4				\$962,437.84

### YBOR

A	B	C	D	E	F
ITEM	SOURCE	CONTRACT LABOR, MATERIAL, MISC., TAXES, ETC.	VERIZON LABOR & LOADINGS	MATERIAL, MISC., TAXES, ETC.	TOTAL
8 GENERATOR (2212.10)	VZ FLA - REO				
9 ELECTRICAL/FUEL TANK /OTHER (2121.10)	VZ FLA - REO				
10 TOTAL VZ FLA - REO	SUM LINES 8+ LINE 9				
11 TOTAL VZ FLA -COEI (2232.21)	VF FLA - COEI				
12 TOTAL VZ FLA - REO & COEI	SUM LINES 10 + LINE 11				\$771,527.39

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