

So, you want to audit construction costs – what support do you request, what will you receive, and what do you do with it?

June 23, 2022





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ACUA Virtual Learning Director
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Today's Presenter(s)

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Consultancy founded in 2006 which focuses solely on Construction Contract Auditing

Significant focus on Higher Education and Healthcare clients

Audit philosophy of proactively identifying potential issues and establishing financial controls prior to contract execution

Services include "Owner-specific" Audit Training for Staff



Presentation Overview

- I. Selecting the Project to Audit and the Scope of the Review
- II. Support Documentation to Request
- III. Documentation likely to be Provided
- IV. Evaluation of Support Documentation

Typical Construction Contract Types

- Design-Bid-Build
 - Traditional "hard bid" or "low bid" contract
- Multi-Prime
 - Owner contracts separately with a General Contractor,
 Mechanical Contractor, Electrical Contractor, etc. to construct a single project
- Design-Build
 - Owner executes one contract with a single entity to both design and construct a facility
- Construction Manager @ Risk
 - "Cost plus" contract that includes a Guaranteed Maximum Price
- Integrated Project Delivery (IPD)
 - Single three-party contract (Owner-Designer-Contractor)



Fixed Price Contracts

Commonly referred to as "hard bid" or "lump sum"

 often used in smaller projects when the drawings and scope have been finalized

Auditor scope likely limited to change orders only

Guaranteed Maximum Price Contracts

GMP Contracts segment the recovery of project costs into various components

- General Conditions
 - Cost of Managing the Project
 - Salaried labor
 - Mobilization Costs/Other Costs of Doing Business on Project Site
 - Trailer
 - Contract terms may 'fix' this amount, but a 'cap' (based on actual costs) similar to the GMP Cost of the Work is recommended
- Cost of Work
 - Subcontracts
 - Self-performed work
- Insurance/Bonds
- Fee (a percentage of the project cost or a stipulated amount)

Question #1

- When is the optimal time to begin an audit?
 - A Prior to Contract Execution
 - B Prior to Construction
 - C During the Project Lifecycle
 - D In Conjunction with Project Closeout
 - E Unsure/Don't Know/NA



Initial Documentation Request

Obtain copy of executed construction contract with all amendments, exhibits, workbooks, et al

Obtain fully supported Owner Payment Applications from Owner or Contractor

- Schedule of Values
- Subcontractor payment applications

If not included in the individual Owner Payment Applications, request a project cost report (for the period being audited) from the Contractor

- Should include all direct reimbursable costs
- If non-reimbursable charges included, ask for those to be identified

Areas of Leakage

Labor	Materials	Subcontractors	Leased Equipment	Other
Payroll reconstruction	Billed in accordance with contract	Payment cancellation	Rates are in accordance with contract	Monetary float
Multiplier verification	Review for duplicate payments	Change Order pricing reviews	Aggregate payments do not exceed fair value	Travel
Proper application of multiplier	Confirmation of rebates issued	Review of duplicate payments	Equipment idle on job site	Misc. expenses
Non-reimbursable personnel	Pricing reasonableness testing	Appropriate bid process	Auto allowances	Overhead charges
Overtime	Quantity purchased reasonableness testing	Payment reconciliation		Recruiting expenses
Ghost(s) on payroll	Unconsumed materials/scrap reasonableness testing			Relocation expenses





Source Documentation Request

- Read the Construction Contract
- Does the Contract have any unique specifications?
 - Is the specified charge to be billed at a pre-determined rate or actual cost?
 - Certain overhead items are to be recovered in the Contractor's Fee
- Source documentation will be needed for multiple categories
 - Direct labor costs and equipment costs
 - Subcontractor costs
 - Insurance Costs
 - Other Misc. Costs
- Determine and seek the lowest source document

Labor Review: Bill Rates

Supplemental Conditions Paragraph 7.2.2 of the Compensation Agreement

"The following salaried employees will be billed as shown below. Additionally, these employees will not bill in excess of 40 hours per week. In the event that the following employee is replaced, their replacement will be billed at the same rate.

а.		
<i>b</i> .		
<i>C</i> .		
d.		
е.	•	
f.		

\$120.00/hour \$90.00/hour \$75.00/hour \$55.00/hour \$45.00/hour \$35.00/hour"

Paragraph 7.1, AIA Document A111

"The term Cost of the Work shall mean costs necessarily incurred by the Contractor in the proper performance of the Work. Such costs shall be at rates not higher than the standard paid at the place of the Project except with prior consent of the Owner. The Cost of the Work shall include only the items set forth in this Article 7."

Labor Review: Bill Rates

- Timekeeping Records
 - Most likely electronic timekeeping system
 - Records should show all hours worked in a given week (the project in question, other projects, non-billable time)
 - Essential for part-time employees
- Payroll records unnecessary given bill rates
- Contract language should, but often does not, specify what is included in the bill rate
 - Paid time off
 - Other customary benefits
 - Payroll taxes and unemployment insurance
 - If rate's components are not defined, the Contractor should be requested to provide them



Weekly Employee Timesheet - Summary

Week Ending: 7/9/2021

Resource: All, Resource Group:	
Resource: All, Resource Group:	

144867

Job	Cost Code	Ty	уре	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Total
1773LV	40-014-LR					3.00					3.00
1773LV	40-014-LR						4.00	4.00			8.00
1983E	1-131-LR					3.00					3.00
1983E	1-131-LR						2.00	4.00	8.00		14.00
2010LV	40-014-LR					2.00					2.00
2010LV	40-014-LR									2.00	2.00
2059	16-800-LR						2.00			6.00	8.00
Totals for		week en 7/9/	ding /2021			8.00	8.00	8.00	8.00	8.00	40.00

Labor Review: Burden

- Timekeeping Records
- Payroll records inclusive of employee deductions
- Similar to bill rates, the Contract language should, but often does not, specify what is included in the burden
 - Paid time off
 - Payroll taxes and unemployment insurance
 - Other customary benefits
 - If rate's components are not defined, the Contractor should be requested to provide them

	2212601	
l i		

Route:	999100445B
Check No:	1120652
Check Date:	7/31/2020
Period End:	7/31/2020
Period From:	7/1/2020
Period Thru:	7/31/2020

Period	Earnings	Hours	Rate	Amount	Year to Date	Description	Period Amount	Year to Date
OfficeAuto		173.33	76.923	13,333.33	26,666.66	Gross Wages	13333.33	35,897.42
Office Auto1					9,230.76	Federal Income Tax	1857.06	4,930.16
#Employer Provided	l Hth			1,007.71	2,015.42	Federal FICA Withheld	783.72	2,143.60
#Employer Provided	LTD			40.80	122.40	Federal Medicare Withheld	183.29	501.33
#Employer Provided	l Life			67.20	201.60	GEORGIA WH	593.15	1,625.88
ExcessLife				62.10	186.30	*Health Insurance	485,00	970.00
401(k) Match				533.33	1,435.89	*Dental Insurance	89.23	178.46
						*Vision Insurance	30.51	61.02
						*Flex-Med.	150,00	300.00
						Accidental Insurance	30.69	61,38
						*401-K	1466.67	3,723.08
Gross Pay	13,333.33		Total Dec	ductions	5,669.32	Net Pay	7,664.01	

Labor Review: Burden

	Construction	n Manager Burden Rat	te Analysis
Burden Component	Construction Manager Calculation	FHA Suggested Calculation	Comments
Social Security	7.65%	7.09%	Reduced to Actual Amount to account for
Unemployment - Federal	0.80%	0.03%	
Unemployment - State	3.34%	0.68%	appropriate caps
Marker's Comp			Reduced to account for appropriate rate
Worker's Comp	9.05%	8.32%	modification
Health Insurance	10.45%	8.89%	Reduced to account for actual participation
Pension	4.50%	1.89%	Reduced to actual amount of 401(k) participation
Disability (Long Term)	0.05%	0.05%	
Bonus	5.00%	0.00%	Eliminated as Contract calls for Owner approval for bonus
Car Allowance	2.00%	0.00%	Eliminated as Contract calls for Owner approval for auto allowance
			Reduced to weighted average amount of vacation
Vacation	5.77%	2.89%	time per employee per hour worked
Total Fringe	48.61%	29.84%	

Labor Review: Burden

- State Unemployment Rate (document from state)
- Workers' Compensation incl. Experience Mod (document from carrier)
- Medical Insurance
 - At employee level (payroll record)
 - At firm level (document from carrier)
- Retirement (payroll record)
- Other
 - ADD/LTD (document from carrier)



North Carolina Department of Commerce Division of Employment Security Post Office Box 26504 Raleigh, North Carolina 27611-6504

UNEMPLOYMENT TAX RATE ASSIGNMENT EFFECTIVE JANUARY 1, 2022

Account Number	Tax Rate for Year Shown Above	Final Date for Voluntary Contribution	DETERMINATION FINAL	Statement Mailed
	0.540% (.00540)	Jan 14, 2022	May 1, 2022	Dec 15, 2021
2022 TAX RATE	NOTICE			

CUMULATIVE EXPERIENCE RATING STATEMENT	PAYROLL	CREDITS
Your account balance as of July 31, 2020 Trust Fund Interest earned Adjustment to balance since July 31, 2020 Account balance received by transfer Payroll current yr from predecessor Payroll 1st pre yr from predecessor Payroll 2nd pre yr from predecessor Payroll for the year July-June 2018-2019 Payroll for the year July-June 2019-2020 Payroll and contributions July-Sept 2020 Payroll and contributions Oct -Dec 2020 Payroll and contributions Jan -Mar 2021 Payroll and contributions Apr -Jun 2021 LESS amount not creditable this year because paid after July 31, 2021	0.00 0.00 0.00 2,440,060.35 2,162,239.65 14,721.56 1,086.80 1,656,342.97 193,402.78	126,689.47 1,618.63 0.00 0.00 129.55 9.56 11,263.13 1,315.14
Unemployment insurance benefit charges YOUR ACCOUNT BALANCE AS OF JULY 31, 2021		10,029.60-
TOOK ACCOUNT DALANCE AS OF JULY ST. 2021		150.995.88

Your payroll for the last 3 fiscal years of 6,467,854.11 divided into your credit balance on July 31, 2021, resulted in a credit reserve ratio of \pm 2.0. This ratio is multiplied by sixty-eight hundredths (0.68) to compute your Employer's Reserve Ratio Percentage (ERRP) of \pm 1.360.

The ERRP is subtracted from a base rate of 1.9% as determined by N.C.G.S. 96-9.2(c) to obtain your Unemployment Insurance (UI) contribution rate, subject to a minimum of 0.06% and a maximum of 5.76%. This computation gives you a UI contribution rate for 2022 of 0.54%.

The unemployment insurance benefit charges above include quarterly charges for 3rd quarter 2020, 4th quarter 2020, 1st quarter 2021 and 2nd quarter 2021. These benefit charges do no include any COVID-19-related charges.

Pursuant to N.C.G.S.96-9.2(d), this rate will become final unless a protest is made in writing and received prior to May 1, 2022. Written letter may be sent to the address above or faxed to (919) 733-1255.

THE TAXABLE WAGE BASE PER EMPLOYEE IN 2022 IS \$28,000.

THIS STATEMENT IS NOT A BILL OR A REFUND. IT IS USED FOR RATE CALCULATION PURPOSES ONLY.

TRAVELERS J ONE TOWER SQUARE HARTFORD CT 06183

SEE ENDT WC 00 03 13 00 DATE OF ISSUE: 10-04-19 SN

10/1/19 - 9/30/20.

WORKERS COMPENSATION AND EMPLOYERS LIABILITY POLICY

SCHEDULE NO: 1

OF 2

	EX	TENSION OF INFO PAGE-SCH	EDULE WC 00 00 ()1 (A)
		POLICY NUMBER:		
INSURER: THE TRAVELERS INDEMNIT	Y COMPANY	OF AMERICA		
INSURED'S NAME			13439-NC	
EXP. MOD. EFFECTIVE DATE: 10-01	_10	RATĖ BUREAU ID: 9107	99088	
EAF. MOD. EFFECTIVE DATE: 10-01	-13	DDEMTIM DAGTE		
		PREMIUM BASIS ESTIMATED	RATES	ESTIMATE
		TOTAL ANNUAL	PER \$100 OF	
CLASSIFICATION	CODE	REMUNERATION	REMUNERATION	PREMIUM
LOCATION 001				
FEIN 560798195 ENTITY CD 001 00				
CONCRETE CONSTRUCTION NOC	5213	300000.00	11.83	35490
CONCRETE OR CEMENT WORK- FLOORS, DRIVEWAYS, YARDS OR SIDEWALKS-& D	5221	200000.00	6.99	139800
PAVING OR REPAVING-FLOORS, DRIVEWAYS, YARDS OR SIDEWALKS-& DVOLUNTARY COMP USL HW-SEE ENDT WC 99 01 01	5221U	IF ANY	13.28	0
CARPENTRY NOC	5403	100000.00	9.76	9760
CONTRACTOR-PROJECT MANAGER, CONSTRUCTION EXECUTIVE, CONSTRUCTION MANAGER, OR CONSTRUCTION SUPERINTENDENTVOLUNTARY COMP	5606	IF ANY	1.65	0
CONTRACTOR-PROJECT MANAGER, CONSTRUCTION EXECUTIVE, CONSTRUCTION MANAGER, OR CONSTRUCTION SUPERINTENDENT	5606	16500000.00	1.65	272250
CONSTRUCTION OR ERECTION PERMANENT YARD	8227	85000.00	6.77	5755
SALESPERSONS OR COLLECTORS - OUTSIDE	8742	700000.00	0.47	3290
CLERICAL OFFICE EMPLOYEES NOC	8810	700000.00 WAIVER PREMIUM	0.20	14000 ESTIMATED ANNUAL
CLASSIFICATION	CODE	BASIS	RATE	PREMIUM
BLANKET WATVER OF SUBROGATION	0930	480345	0 0200	9607

Long Term Disability CORE PLAN

Class Description(s):

Class 1: All Full-time Active Employees who are Salaried Employees

Full Time Eligibility: 30 hours per week

Class 2: All Full-time Active Employees who are Hourly Employees

Full Time Eligibility: 30 hours per week

Feature			Description			
Benefit Percentage			60%	10-10-10-10-10-10-10-10-10-10-10-10-10-1		
Maximum Monthly Ben	efit	1100-100-100-100-100-100-100-100-100-10	\$4,000			
Minimum Monthly Bene	efit		Greater of \$100 or 10	%		
Elimination Period			180 Days			
Benefit Duration			ADEA 1 with Social	Security Normal Retirement Age		
Definition Of Disability			Class 1 - Own Occup Class 2 - 2 Years Own			
Return To Work Incenti	ve Applies		Yes			
Integration Method			Direct			
Social Security Offset			Family			
Pre-Existing Condition	Limitation		Look-back/Insured 6/	12 months		
Takeover Provision			No Loss/No Gain			
Mental Illness Limitatio	n		24 Month Outpatient			
Substance Abuse Limita	ntion		24 Month Outpatient			
Family Care Credit	-10" 1154 (1155)		Included			
Workplace Modification	n Benefit		Included			
Rehabilitation Participat	tion Requiremen	ts	Included			
Recommended Treatme	nt Requirements		Included			
Basic Benefit Option Du	uration		Class 2 - Included			
Survivor Income Benefi	t Option		3 Times Last Monthly Gross Benefit			
Employer Participates In	n Worker's Com	pensation	Yes			
Employee Contribution			Non-Contributory			
Participation Requireme	ent		100% of Eligible Employees			
FICA Match Service			Included	Included		
Initial Rate Guarantee P	eriod		3 Years			
		Rate Sun	imary			
Coverage Category/Class	No of Lives	Rate Basis	Volume	Monthly Premium		
LTD /Composite	225	\$0.224 Per \$100 Of Covered Salary	1,317,230.5	\$2,950.60		

Question #2

- Reimbursable labor burden should only include which one of the following items:
 - A Employee Computers
 - B Payroll Taxes
 - C Employee Training
 - D Small Tools
 - E Employee Cell Phones



CM/Contractor Insurance Review

§ 6.6 Miscellaneous Costs

§ 6.6.1 Premiums for that portion of insurance and bonds required by the Contract Documents that can be directly attributed to this Contract. Self-insurance for either full or partial amounts of the coverages required by the Contract Documents, with the Owner's prior approval.

Various insurance coverages may be defined in the Contract

- GL (may or may not be defined as a percentage rate in the Contract)
- CCIP (often specified as a percentage rate in the Contract or Contract Amendment)
- Builder's Risk (purchased specifically for project)
- Subcontractor Default Insurance (almost always specified as a percentage rate of the enrolled subcontracts)
- P&P Bond (purchased specifically for project)

Sample for Illustrative Purposes Only

CM/Contractor Insurance Review

General Liability Insurance (if rate utilized, but not defined in Contract)

- Request breakdown of rate charged to the project
- Review Contract requirements for policy coverage and limits
- Review rate breakdown to determine if coverage not required and/or overhead has been included

Builder's Risk/P&P Bond (purchased specifically for project)

- Request invoice
- Be wary of captive insurer

Subcontractor Default Insurance

- Request list of enrolled subcontracts
- Review Schedule of Values in subcontractor payment applications for inclusion of bond (duplicate charge)

Sample for Illustrative Purposes Only

Cost of Risk Management

ine of Coverage	Carrier	Limits	Deductible	Exposure Type	Risk Management Rate
General Liability	Liberty Mutual	\$2mm / \$4mm	\$ 250,000	Payroll	
Fixed Costs / Ded Premium (Non Wrap)				Payroll	0.4116
Fixed Costs / Ded Premium (Wrap-Up DIC)				Payroll	
Deductible Aggregate				Payroll	2.3131
LCF				Payroll	0.1346
TRIA				Payroll	0.0157
Collateral Charge					0.0169
otal General Liability					2.8920
Professional Liability	Zurich	\$10mm		Revenue	0.3769
collution Liability	Zurich	\$25mm		Revenue	
Professional SIR	Self Insured Retention	N/A	\$2,000,000	Revenue	1.7951
Pollution / Mold SIR	Self Insured Retention	N/A	\$500,000	Revenue	1.1219
Professional (I Managaement)	Media Professional	\$3m	\$25,000	Revenue	0.0090
Management Deductible	Deductible	N/A		Revenue	0.0224
utomobile	Liberty Mutual	\$1mm CSL		Vehicles	0.1731
TRIA					0,0017
Physical Damage Deductible			Varies		0.0224
Imbrella - 10 x primary	Liberty Mutual	10 x p		Revenue	0 1152
Imbrella - 25 x 10	Zurich	25 x 10		Revenue	0.0918
Imbrella - 25 x 55	Great American	25 x 35		Revenue	0.0410
Imbrella - 50 x 60 quota share	St. Paul Travelers	50 x 60 qs		Revenue	0.0285
Imbrella - 50 x 60 quota share	Westchester	50 x 60 qs		Revenue	0,0285
Imbrella - 25 x 110	Fireman's Fund	25 x 110		Revenue	0.0206
Imbrella - 40 x 135	AIG	40 x 135		Revenue	0.0370
Property / Inland Marine	Liberty Mutual	Vanous		Property Values	0 0 534
roperty / Inland Marine Deductibles	Deductible	\$10,000			0.0135
Directors and Officers Liability	Liberty Mutual	\$5mm			0.0267
Directors and Officers Liability SIR	SIR	\$100,000			0.0449
Employment Practices Liability - Self Insured	Liberty Mutual	NA			0.2244
nme	St. Paul Travelers	\$5mm			0.0171
on Fee	N/A	N/A			0.0898
lisk Management (Department Expense)	N/A	N/A			0.3861
Corp Safety / Loss Control	N/A	N/A			0.2019
dbo2	N/A	N/A			0.0561
JMJ - Incident & Injury Free	N/A	N/A			0 2917

Risk Management Rate 8,4519

CM/Contractor Insurance Review

Project - General Liability Ir	Insurance Rate Components				
Components	Audit Comments				
Casualty Insurance	OK				
Workers Compensation Insurance	Billded directly in labor burden				
General Liability Insurance	OK				
GL - Architecture Division	Not Applicable				
Automobile Liability	OK				
Umbrella Liability	OK				
International Excess / DIC	OK				
Property All Risk/ Inland Marine	OK				
Professional/Pollution Liability	Not Required Owner's Contract				
Network Security Liability (Cyber)	Not Required Owner's Contract				
Management Liability	Not Required Owner's Contract				
Kidnap Ransom Extortion	Not Required Owner's Contract				
Surety Program	Unknown				
Aviation Liability (Drones)	Not Required Owner's Contract				
Brokerage/Consulting	OK				
Department Overhead	Overhead				



Invoice # 6968	Page 1 of 1
count Number	Date
	7/29/2021
BALANCE DUE ON	15.000 S-4007, (
8/11/2021	
AMOUNT PAID	Amount Due
	\$134,005.00

Builder's Risk Travelers			Policy # Issuing Co:	QT-660-1F 180733-TIL-20 Travelers Property Casualty Co of America	Effective:	7/1/2020	to	7/1/2021
Item #	Trans Eff Date	Due Date	Trans	Description				Amount
21680	6/30/2021	8/11/2021	MONT	Monthly Builder's Risk Report: June 2021				\$134,005.00

June 2021 Builder's Risk Coverage Report: \$130,939 Hard Cost Premium + \$3,066 Supplemental Coverage Premium

Total Invoice Balance: \$134,005.00

7/29/2021 Page 1 of 1

Msw McGRIFF, SEIBELS & WILLIAMS, INC.

PAYMENT INSTRUCTIONS: DETACH AND RETURN WITH REMITTANCE TO:

Regular Mailing Address: McGriff, Seibels & Williams, Inc. Lockbox Drawer 456 PO Box 11407 Birmingham, AL 35246-0456 Overnight Mailing Address: McGriff, Seibels & Williams, Inc. Lockbox Attention: Lockbox Dept. Drawer 456 2090 Parkway Office Circle Birmingham, AL 35244

Customer	
Acct#	
Date	11/06/2019
Customer Service	
Page	1 of 1

INVOICE _____

Payment Information								
Invoice Summary	\$	63,117.00						
Payment Amount								
Payment for:	Invoice	‡19191						
016224697	- New York Control of the Control of							

Thank You

lease detach and return with payment

3600

Effective Transaction Description Invoice Amount Policy #016224697 11/01/2019-11/01/2021 LIBERTY MUTUAL SURETY / LIBERTY MUTUAL INSURANCE CO. 11/01/2019 19191 New business Performance and Payment Bond - New business 63,117.00 \$14,092,321.86 Cost Code 1-999 Tax Exempt Y/N ~ JD Initials Total 63,117.00 \$ Thank You

Please pay by invoice. Premiums are due and payable upon receipt or on the effective date whichever is later. Thank you!

McGriff, Seibels & Williams, Inc.	(205)252-9871	Date
2211 7th Ave South Birmingham, AL 35233		11/06/2019

Subcontractor Default Insurance vs. Bonded

Projec	ct Name	Subcontractor Name	Subo	contract Executed	Enrolled in SDI	Bonded
1950				Yes	Yes	-
1950				Yes	-	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	-	Bond on File
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	-	Bond on File
1950				Yes	Yes	-
1950				Yes	-	Bond on File
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	-	Bond on File
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	-
1950				Yes	Yes	
L						

Information Technology Charge Review

§ 6.6.6 Costs for electronic equipment and software, directly related to the Work with the Owner's prior approval.

AIA Contract allows for project-specific IT expenditures

- Laptop computers
- Connectivity
- On-site support

AIA Contract does not allow for corporate overhead IT expenditures

- Accounting systems
- Home office servers
- Home office support

Information Technology Charge Review

In the absence of Contract language specifying an IT rate, invoices should be provided for all IT charges

- Most transparent from an audit perspective
- Be wary of invoices from a related party
- IT Contract language is usually nebulous "rule of thumb" is if used onsite, it's likely OK, if used at home office, it's likely overhead and should not be billed
- Computers and other hardware charged to the project should revert to Owner control at project's end if purchased

If IT rate is specified, the project cost report should be scrutinized to ensure IT charges covered by the rate have not been direct billed to the project. If rate's components are not defined, the Contractor should be requested to provide them.

2019 IT Charge Model Analysis

stems Charge Model Option Details	2019 Charge Model										
-	2019			S	ystems (Charg	е				
	Total		AII	Cor	p/Ops	Ops	/Field		Ops		
Charge Model Calculations											
Network and Storage Systems	771,398		771,398		-		-		-		
Network and Storage Maintenance	2,619,445										
M&R Agreements	659,864		659,864		-		-		-		
Network & Storage Staff	1,959,581		1,959,581		-		-		-		
Microsoft Licensing	1,610,129		1,610,129		-		-		-		
Software Licenses and Depreciation	4,153,389										
Software Licenses	4,153,389		1,726,769	1,	449,544	1	13,843		863,23		
Software Depreciation	w/Microsoft										
Software Maintenance	3,249,072										
Software & ERP Systems Maintenance	2,003,108		1,620,008		166,747		80,040		136,31		
Software Management Staff	1,245,964		1,245,964		-		-		-		
Telecomunications	3,169,807										
Telecommunications	889,582		889,582		-		-		-		
Mobile Phones	1,703,877		1,703,877		-		-		-		
Telecom/Data Staff	576,347		576,347		-		-		-		
Support Staff	2,477,872		2,477,872		-		-		-		
Subtotal (IT Dept Costs)	\$ 18,051,112	\$	15,241,392	\$ 1,	616,291	\$ 1	93,882	\$	999,54		
			2,205		1,292		1,709		90		
		\$	576.02	\$	104.25	\$	9.45	\$	92.2		
Operations User Charge - PM/Estimating/VD0	S/Scheduling	\$	576.02	\$	104.25	\$	9.45	\$	92.2		
3,	, , , , , , , , , , , , , , , , , , ,	ĺ				Co	st/User	\$	781.9		
					2019 N	lonth	ly Rate	\$	725.0		
Field User Charge - Superintendent/Foremen/	'FE	\$	576.02	\$	-	\$	9.45	\$	_		
			- 0.0.02			~	st/User		585.4		
					2010 1		ly Rate	\$	500.0		

		Re-Ca	p Check	for Refe	renc	e - Devic	e Use	r
Computers and Accessories	Cost		Cost		Ra	e	Diffe	rence
Laptops/Desktops/Field Equipment	1,083,924	User Charge - OPS	\$	781.96	\$	725.00	\$	(56.96)
Misc Accessories Asset Staff		User Charge - Field Device Charge	\$ \$	585.47 90.32	\$ \$	500.00 190.00	\$ \$	(85.47) 99.68
							\$	(42.75)
Subtotal (Device Costs)	\$ 2,242,386							

Total Device Cost 2,242,386 **Total Devices** 2,069 Average Cost/Device Per Month \$ 90.32

Note: Account for rounding in Ops Rate above and laptop premium over desktop:

2019 Device Monthly Rate
\$

190.00

Contractor-Owned Equipment Review

Contract language may specify Contractor-owned rental rates are indexed to a third-party source (AED Green Book, EquipmentWatch Blue Book)

- Often less than 100% to index
- May or may not include cap where lease payments cease; if not,
 FMV or replacement value is implied cap

Contractor ideally should provide leased equipment summary

- Equipment tracked down to serial number
- Fair market value when first utilized on the project
- Rental rate and index rate (if applicable)
- Cumulative rental charges to date for each item

Billing Period: 11/20/2019 Thru 12/18/2019 Tool Cap 80%

Tool Description	Qty	Tool Scan Code Number	Jobsite Start	Date Tool Left Jobsite	Purchase Price/NECA Value	Rate Per Month	Rate Per Week	Rate Per Day	Working Days on Project During this Billing Period	Previously Billed	Dec	Total To-Date Billing	Remaining Balance (Max. Rental Charge - Total Billing)
TEMPORARY POWER-CONTAINER 2,000 AMPS	1	35527509	7/16/2018	7/17/2019	\$ 23,879.55	\$ 398.00	\$ 99.50	\$ 18.09	0	7,127.60		7,127.60	11,976.04
GENERATOR 3750 WATTS	1	35294855	7/16/2018	10/26/2018					0	521.60		521.60	
HAMMER-ROTARY SDS W/DUST EXTRACTOR D2530H	1	21113639 21113640	7/16/2018	11/21/2018 11/21/2018	\$ 585.01 \$ 585.01	\$ 98.56 \$ 98.56	\$ 22.41 \$ 22.41	\$ 4.51 \$ 4.51	0	468.01 468.01		468.01 468.01	- : -
HAMMER-ROTARY SDS W/DUST EXTRACTOR D2530H HAMMER-ROTARY 1 9/16* SPLINE	- 1-31-	10526464	7/16/2018 7/16/2018	11/21/2016	\$ 849.00	\$ 116,47			21	679.20		679.20	-
GANG BOX-LARGE	1	10642256	7/16/2018	7/17/2018	\$ 895.01	\$ 89.74	\$ 25.64		0	14,66		14.66	701.35
GANG BOX-LARGE	1	10642250	7/17/2018		\$ 895.01	\$ 89.74			21	716.01	-	716.01	
CABLE STRIPPER 6-750 CU 20 VOLT MAX	1	21113605 10505059	7/26/2018 7/26/2018	10/20/2018	\$ 535.01 \$ 11.000.01	\$ 95.71 \$ 804.81	\$ 27.34 \$ 229.94		21	428.01 2,480.10		428.01 2.480.10	6.319.91
PULLER-CABLE 10,000 LBS. PULLER-CABLE FEEDER	11	10505060	7/26/2018			\$ 804.80			ő	2,611.50	-	2,611.50	2,641.31
GANG BOX-SMALL	1	35055160	8/1/2018	12/6/2019	\$ 590.01	\$ 32.58	\$ 9.31	\$ 2.66	13	472.01		472.01	
TEMP. POWER ASSEMBLY 45 KVA	1	10510129	8/3/2018		\$ 8,501.70	\$ 141.70			0	3,044.61		3,044.61 2,826.77	3,756.75 5,131.52
TEMP. SERVICE CONEX 800amp & ABOVE GANG BOX-SMALL	1	26572008 5052010	8/6/2018 8/15/2018	7/16/2019	\$ 9,947,86 \$ 590.01	\$ 166.80 \$ 32.58		\$ 7.58 \$ 2.66	21	2,826.77 379,39	39.90	419.29	52.72
STUD GUN-GAS POWERED	- 1 1	10538010	8/22/2018	11/21/2018	\$ 815.99	\$ 83.01			0	249.00	-	249.00	403.79
STUD GUN-GAS POWERED	1	10538009	8/22/2018		\$ 815.99	\$ 83.01	\$ 23.71		21	652,79	-	652.79	-
PUNCH-K. O. SET 1/2-4*DRILL DRIVEN	1	10520149	8/22/2018	11/21/2018		\$ 149.85			0	513.77		513,77 2,915,71	686.24 3,885.65
TEMP. POWER ASSEMBLY 45 KVA	1	35200532 35200532	8/23/2018 8/23/2018		\$ 8,501.70 \$ 8,501.70	\$ 141.70 \$ 141.70	\$ 35.43 \$ 35.43		0	2,915.71 2,973.67		2,913.71	3,8827.69
TEMPORARY POWER SOURCE 45 KVA VACUUM-WET/DRY / VACUUM FISHING SYSTEM	1	35200532 21112748	9/13/2018	11/3/2019	\$ 1,382.35				. 21	1,105.88		1,105.88	-
GANG BOX-LARGE	1	35294592	9/13/2018	122 1412414	\$ 895.01	\$ 89.74	\$ 25.64	\$ 7.33	19	716.01		716.01	
GANG BOX-MEDIUM	1	35293246	9/13/2018		\$ 645.01			\$ 4.57	21	516.01		516.01	
VACUUM-WET/DRY / VACUUM FISHING SYSTEM WIRE WAGON 550-PRINT TABLE	1	21112748 37752014	9/13/2018		\$ 1,382.35 \$ 675.01	\$ 129.89 \$ 28.99		\$ 10.60 \$ 2.37	21	1,105.88	35.49	1,105.88 459.09	80.92
WIRE WAGON 550-PRINT TABLE	1	37752026	9/13/2018		\$ 675.01	\$ 28.99			21	423.60	35.49	459.09	80.92
VISE-TRIPOD CHAIN	1	12340105	9/13/2018		\$ 600.01	\$ 15.91			21	206.44	19.47	225.91	254.10
TEMP. POWER ASSEMBLY 45 KVA	1	35200503	9/20/2018	11/5/2019		\$ 141.70			0	2,735.18		2,735.18 460.01	4,066.18
SAW-PORTABAND DEEP CUT 20V SAW-PORTABAND DEEP CUT 20V	1	10504516 10504517	9/24/2018 9/24/2018		\$ 575.01 \$ 575.01	\$ 81.75 \$ 81.75		\$ 6.33 \$ 6.33	21	460.01 460.01		460.01	
HAMMER-ROTARY SDS MAX 1 9/16" 120V	1	10538007	9/24/2018			\$ 98,56			21	468.01	-	468.01	-
STORAGE BIN-MATERIAL BIN	1	10642242	10/8/2018		\$ 1,316.01	\$ 69.97	\$ 19.99	\$ 5.71	21	966.71	85,67	1,052.38	0.43
STORAGE BIN-MATERIAL BIN	1	35503360	10/8/2018		9 1,010,01	\$ 69.97		\$ 5.71	21	966.71	85.67	1,052.38	0.43
TRANSIT-LEVEL AUTO W/TRIPOD	1	10538633 10504792	10/9/2018		\$ 2,300.01 \$ 575.01	\$ 285.11 \$ 81.75			21 21	1,840.01 460.01	-	1,840.01 460.01	
SAW-PORTABAND DEEP CUT 20V PUNCH-K, O. SET 1/2-4"DRILL DRIVEN	11	10504782	10/10/2018	12/9/2019					14	1,200,01	-	1,200.01	
HAMMER-ROTARY SDS W/DUST EXTRACTOR D2530H	1	10537939	10/10/2018	12/16/2019	\$ 585.01	\$ 98.56	\$ 22.41	\$ 4.51	19	468.01	-	468.01	-
HAMMER-ROTARY SDS W/DUST EXTRACTOR D2530H	1	10504515	10/10/2018	12/9/2019		\$ 98.56	\$ 22.41		14	468.01 652.79	- :	468.01 652.79	
STUD GUN-GAS POWERED	1	10526482 10526481	10/24/2018 10/24/2018	11/21/2018	\$ 815.99 \$ 815.99	\$ 83.01 \$ 83.01			0	101.62	- :	101.62	551.17
STUD GUN-GAS POWERED TEMP. POWER ASSEMBLY 45 KVA	1	35205300	10/29/2018		\$ 8,501.70	\$ 141.70	\$ 35.43		21	2,541.27	148.16	2,689.43	4,111.93
TEMP. POWER ASSEMBLY 45 KVA	. 1	35205298	10/29/2018		\$ 8,501.70	\$ 141.70	\$ 35.43		21	2,541.26	148.16	2,689.42	4,111.94
CUTTER-CABLE POWER BLADE	- 1	12340059	11/20/2018		\$ 819.84 \$ 254.85			\$ 2.13 \$ 1.46	21	450.54 203.88	31.89	482.43 203.88	173.44
JACK-REEL 2500 LBS 54"(SET 1 OF 2) SAW-PORTABAND 20V	1 1	12340110 12340068	11/20/2018 11/20/2018		\$ 579.01				21	463.21		463.21	
TABLE-PLANNING	1	12340173	11/20/2018		\$ 575,01				21	460.01		460.01	-
SAW-PORTABAND DEEP CUT 20V	1	10504019	12/7/2018	2/11/2019			\$ 22.15		0	176.16		176.16	283.85
FISH TAPE-5/16 BY 500' DUCT RODDER	1	35200531	12/7/2018	10/07010	\$ 1,350,01 \$ 575,01	\$ 17.03			21 13	195,99	20.83	216.82 460.01	863.19
SAW-PORTABAND DEEP CUT 20V GUN-STUD BATTERY	-+	10504018 35293859	12/7/2018 12/10/2018	12/6/2019					14	460.01 1,006.20	74.54	1,080.74	686,47
SUN-STUD BATTERY	1	50125629	12/10/2018		\$ 2,209.01		\$ 23.71	\$ 6.78	19	1,006.20	98.25	1,104.45	662.76
GUN-STUD BATTERY	1	50125631	12/10/2018		\$ 2,209.01	\$ 83.01	\$ 23.71	\$ 6.78	21	1,006.20	101.62	1,107.82	659,39 693,25
GUN-STUD BATTERY	1 1	50125645	12/10/2018	12/6/2019	\$ 2,209.01 \$ 645.01				13	1,006.20 516.01	67.76	516.01	693.25
GANG BOX-MEDIUM GANG BOX-MEDIUM		10537966 10538624	12/10/2018	12/6/2019	\$ 645.01				21	516.01	-	516.01	
SANG BOX-MEDIUM	1	10538631	12/10/2018		\$ 645.01	\$ 55.93	\$ 15.98	\$ 4.57	21	516.01	-	516.01	
RACK-WIRE SIM-PULL COIL PAK	1	35054377	12/10/2018		\$ 1,000.01	\$ 71.51	\$ 16.25		21	568.82	68.25	637.07	162.94
RACK-WIRE SIM-PULL COIL PAK	1	35054394 10505045	12/10/2018	12/6/2019	\$ 1,000,01 \$ 585,01	\$ 71.51 \$ 98.56	\$ 16.25 \$ 22,41		13	568.82 468.01	42.25	611.07 468.01	188.94
HAMMER-ROTARY 20V SDS W/ DUST EXTRACTOR D2530H HAMMER-ROTARY 20V SDS W/ DUST EXTRACTOR D2530H		10505045	12/10/2018		\$ 585,01				21	468,01		468.01	-
HAMMER-ROTARY 20V SDS W/ DUST EXTRACTOR D2530H	1	10505047	12/10/2018	12/6/2019	\$ 585,01	\$ 98.56	\$ 22.41	\$ 4.51	13	468,01	-	468,01	-
HAMMER-ROTARY 20V SDS W/ DUST EXTRACTOR D2530H	1	10505050	12/10/2018		\$ 585.01	\$ 98,56	\$ 22.41	\$ 4.51	21	468.01	-	468.01	
DATA VAULT-MOBILE PLAN STATION	1	35210149 35503344	12/17/2018 12/17/2018		\$ 4,500.01 \$ 4,500.01	\$ 350.01 \$ 350.01	\$ 250.01 \$ 250.01	\$ 100.01 \$ 100.01	21	3,600.01		3,600.01 3,600.01	
DATA VAULT-MOBILE PLAN STATION GANG BOX-LARGE	1	10504070	1/9/2019		\$ 895,01		\$ 25.64	\$ 7.33	21	716.01	-	716.01	
GANG BOX-LARGE	1	35294581	1/9/2019		\$ 895,01	\$ 89.74	\$ 25.64	\$ 7.33	21	716.01	-	716.01	-
SANG BOX-LARGE	. 1	35503340	1/9/2019		\$ 895,01	\$ 89.74	\$ 25.64	\$ 7.33	21	716.01		716.01 516.01	
GANG BOX-MEDIUM	- 1	10554976 35054379	1/9/2019		\$ 645,01 \$ 1,000.01				21	516.01 568.82	68.25	516.01 637.07	162.94
RACK-WIRE SIM-PULL COIL PAK RACK-WIRE SIM-PULL COIL PAK		10520209	1/9/2019		\$ 1,000.01		\$ 16.25	\$ 3.25	21	568.82	68.25	637.07	162.94
RADIO-16 CHANNEL UHF DIGITAL - (SET 1 of 2)	1	21115640	1/10/2019	2/11/2019	\$ 445.01	\$ 120.57	\$ 34.45	\$ 9.83	0	130.40	-	130.40	225.61
RADIO-16 CHANNEL UHF DIGITAL - (SET 1 of 2)	1	21114420	1/10/2019	2/11/2019		\$ 120.57			0	130.40		130.40	225.61
RADIO-16 CHANNEL UHF DIGITAL - (SET 1 of 2)	1	21114794 21115630	1/10/2019	2/11/2019		\$ 120.57 \$ 120.57			0	130.40 130.40		130.40	225.61 225.61
RADIO-16 CHANNEL UHF DIGITAL - (SET 1 of 2) RADIO-UHF 10 CHANNEL - (SET 1 OF 2)		21525648	1/10/2019	2/11/2019		\$ 120.57			o l	130.40		130.40	225,60

Rental Rates

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Logistics Rental Rates Home Location: 6041-WD Equipment Class: ALL

Rental Rate Disclaimers:

• Rates escalate yearly and are 90% or less of adjusted AED Greenbook or Market Rate

Charges for superintendent trucks are based on hourly rates varying by Region and are distinct from any truck rates reflected on this sheet.

· Rates are not subject to a rental cap based on equipment value

Home Location	Class	Start Date	End Date	28-Day Rate	Weekly Rate	Daily Rate
6041-WD	12-DA FLAT - 12-DL Trailer - Dual Axle-Flat	01/01/2014	12/31/2014	289.40	96.47	32.16
6041-WD	21-JOB-CC - 21-Truck-Job-Crew Cab 4x2	01/01/2014	12/31/2014	719.40	239.80	79.93
6041-WD	21-JOB-CC4 - 21-Truck-Job-Crew Cab 4x4	01/01/2014	12/31/2014	719.40	239.80	79.93
6041-WD	21-JOB-RC - 21-Truck-Job - Reg Cab 4x2	01/01/2014	+2/31/2014	719.40	239.80	79.93
6041-WD	21-JOB-RC4 - 21-Truck-Job - Reg cab 4x4	01/01/2014	12/31/2014	719.40	239.80	79.93
6041-WD	21-JOB-SUV - 21-Truck-Jobsite-SUV	01/01/2014	12/31/2014	719.40	239.80	79.93
6041-WD	21-JOB-XC - 21-Truck-Job - Ext Cab 4x2	01/01/2014	12/31/2014	719.40	239.80	79.93
6041-WD	21-JOB-XC4 - 21-Truck-Job - Ext Cab 4x4	01/01/2014	12/31/2014	719.40	239.80	79.93
6041-WD	21-SPT-250 - 21-Truck-F250	01/01/2014	12/31/2014	0.00	0.00	0.00
6041-WD	21-SPT-CC - 21-Truck-Super - Crew Cab	01/01/2014	12/31/2014	0.00	0.00	0.00
6041-WD	21-SPT-CC4 - 21-Truck -Super - Crew Cab 4x4	01/01/2014	12/31/2014	0.00	0.00	0.00
6041-WD	21-SPT-RC - 21-Truck-Super - Reg Cab 4x2	01/01/2014	12/31/2014	0.00	0.00	0.00
6041-WD	21-SPT-RC4 - 21-Truck-Super - Reg Cab 4x4	01/01/2014	12/31/2014	0.00	0.00	0.00
6041-WD	21-SPT-SUV - 21-Truck -Super - SUV	01/01/2014	12/31/2014	0.00	0.00	0.00
6041-WD	21-SPT-XC - 21-Truck -Super - Ext. Cab 4x2	01/01/2014	12/31/2014	0.00	1.00	0.00
6041-WD	21-SPT-XC4 - 21-Truck-Super - Ext. Cab 4x4	01/01/2014	12/31/2014	0.00	0.00	0.00
6041-WD	21-TRK JOB - 21-Truck - Jobsite Pickup	01/01/2014	12/31/2014	719.40	239.80	79.93
6041-WD	21-VAN - 21-Van - 12 Passenger	01/01/2014	12/31/2014	1,488.40	496.13	165.38
6041-WD	30-110V - 30-Vibrator - 110V	01/01/2014	12/31/2014	364.70	121.55	40.52
6041-WD	30-BKT25 - 30-Concrete Bucket25 YD	01/01/2014	12/31/2014	324.30	108.11	36.04
6041-WD	30-BKT50 - 30-Concrete Bucket50 YD	01/01/2014	12/31/2014	324.30	108.11	36.04
6041-WD	30-BKT-1.0 - 30-Concrete Bucket-1.0 YD	01/01/2014	12/31/2014	324.30	108.11	36.04
6041-WD	30-BKT-1.5 - 30-Concrete Bucket-1.5 YD	01/01/2014	12/31/2014	489.50	163.18	54.39
6041-WD	30-BKT-2.0 - 30-Concrete Bucket-2.0 YD	01/01/2014	12/31/2014	489.50	163.18	54.39
6041-WD	30-BKT-3.0 - 30-Concrete Bucket-3.0 YD	01/01/2014	12/31/2014	917.90	305.97	101.99
6041-WD	30-CPB-16 - 30-Concrete Power Buggie-16cf	01/01/2014	12/31/2014	964.30	321.43	107.14
6041-WD	30-DR-ROCK - 30-Drill - Rock - Air	01/01/2014	12/31/2014	325.30	108.44	36.15
6041-WD	30-SAW6.5H - 30-Saw - Concrete - 6.5 HP	01/01/2014	12/31/2014	367.40	122.45	40.82
6041-WD	30-SHORE-1 - 30-Shores - #1	01/01/2014	12/31/2014	5.80	1.92	0.64
6041-WD	30-SHORE-2 - 30-Shores - #2	01/01/2014	12/31/2014	5.80	1.92	0.64
6041-WD	30-SHORE-3 - 30-Shores - #3	01/01/2014	12/31/2014	5.80	1.92	0.64
6041-WD	30-SHORE-4 - 30-Shores - #4	01/01/2014	12/31/2014	5.80	1.92	0.64
6041-WD	30-SKPAN - 30-Skip Pan - Certified	01/01/2014	12/31/2014	316.00	105.34	35.11
6041-WD	30-TRP-HD - 30-Tarp - Heavy Duty - Double	01/01/2014	12/31/2014	11.58	3.86	1.29

Logistics Rental Rates Report Created on 12/05/2014 Time: 4:17 PM
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Contractor-Owned Equipment Review

	80%						
Description		FMV	Threshold	То	tal Billed	C	verage
2015 Ford F-150	\$	26,000	\$ 20,800	\$	36,000	\$	15,200
2016 GMC Sierra	\$	30,000	\$ 24,000	\$	28,000	\$	4, 000
Totals	\$	56,000	\$ 44,800	\$	64,000	\$	19,200

Question #3

- Should Construction Manager Owned equipment be charged hourly, daily, weekly, or monthly?
 - A Yes
 - B No
 - C It depends...



Change Order Review

Request fully supported Owner Change Orders

- Cover sheet with itemized list of individual change orders
- Individual change orders (primarily subcontractors)

Individual change orders should be checked against cover sheet to ensure all support is received and confirm amounts are the same

Contractor markups should be present on the cover sheet and should be confirmed against Contract stipulations

Change Order Review

- Validation of various markups
 - Is markup, overhead and profit (OH&P), insurance, bonds, etc. to be applied to both additive and deductive Change Orders?
 - Is OH&P cap defined separately for each tier (i.e., Contractor, Subcontractor, Sub-subcontractor)?
 - Can the Contractor get separate markups for its role on self-performed work?
 - Is aggregate markup capped?
 - Inclusion of a markup template in your Contract documents
- Other Change Order Concerns
 - Validation of costs (material, labor, etc.)
 - Identify duplicate scope in selected instances
 - Rework
 - back charges
 - Review of approval process

Change Order Review

Sub-Sub	contractor Cost	Subco	ontractor Cost		CM Cost
\$				CM Cost	
	-	\$	47,597.39	\$	54,736.99
\$	22,458.98				
\$	13,043.40				
\$	5,194.80				
\$	40,697.18		_		
\$	284.88				
\$	406.97				
\$	41,389.03	\$	47,597.39	\$	54,736.99
\$	6,208.35	\$	7,139.61		
\$	-	\$	-	\$	957.90
\$	47,597.39	\$	54,736.99	\$	55,694.89
_	\$ \$ \$ \$	\$ 5,194.80 \$ 40,697.18 \$ 284.88 \$ 406.97 \$ 41,389.03 \$ 6,208.35 \$ -	\$ 5,194.80 \$ 40,697.18 \$ 284.88 \$ 406.97 \$ 41,389.03 \$ \$ 6,208.35 \$ \$ - \$	\$ 5,194.80 \$ 40,697.18 \$ 284.88 \$ 406.97 \$ 41,389.03 \$ 47,597.39 \$ 6,208.35 \$ 7,139.61 \$ - \$ -	\$ 5,194.80 \$ 40,697.18 \$ 284.88 \$ 406.97 \$ 41,389.03 \$ 47,597.39 \$ \$ 6,208.35 \$ 7,139.61 \$ - \$ - \$

Review of Other Charges

Project Cost Report should be sorted to segment transactions not falling into labor, equipment, subcontracts, insurance, and information technology categories

- Most charges will be for vendors paid via purchase orders
- Journal entries may comprise the rest (likely for employee expense reports);
 backup should be requested for any that are questionable
- The transactions should be further segmented into a list where the reimbursable basis cannot be readily determined – these invoices should then be requested from the Contractor

The invoice review should focus on...

- Is the charge reimbursable per the contract and/or was it intended to be covered by a rate and not billed directly?
- Was it incurred on the project in question?
- Does the date and invoice number trace to the project cost report transaction?



Review of Other Costs

SEMINAR & REGISTRATION

The NEBB Systems Commissioning Seminar will be held:

ate: April 7-12, 2008

Cost:

Location: NEBB Training and Educational Center

1525 West University Drive, #108 Demuro Business Park

Tempe, Arizona 85281-3280

Basic Seminar (Mon - Thurs) \$ 795.00 per person

☐ Contrøls Seminar Only (Wed & Thurs) \$ 200.00 per person *

☐ Plumbing Seminar (Fri) \$ 150.00 per person

Fire Protection Seminar (Sat) \$ 350.00 per person

Required Design Phase Commissioning Handbook for HVAC Systems Publications: \$388.00 List Price or \$259.00 NEBB Firm Price

Send Registration Form and Payment to:

NEBE

8575 Grovemont Circle, Gaithersburg, MD 20877 USA

Phone: (301) 977-3698 Fax: (301) 977-9589

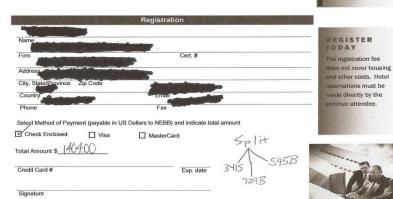
Attention: Sheila Simms



* Note: The Controls Systems Commissioning Module is for repeat candidates only.

REGISTRATION

Available seminar openings will be filled on a "first come, first serve" basis so please respond immediately. The seminar registration deadline to reach NEBB office is March 21, 2008.



Cancellation Fees

Pre-registration and pre-payment of fees are necessary to ensure your participation in the seminar. Do not make any reservations prior to being assured that you have been accepted for the seminar.

Cancellation by registrants, regardless of reason, will be subject to a \$150 service charge to cover NEBB's expenses related to NEBB publications and student materials prepared prior to the seminar. A refund of the prepaid registration fees will be made less the \$150 service charge.

No shows and those persons registered for the seminar that do not cancel 10 days prior to the seminar and subsequently do not attend the course, will forfeit the entire registration fee and examination fee – no refunds.

NEBB reserves the right to cancel any seminars having insufficient registrants, in which case, all prepaid registration and examination fees will be refunded in full. NEBB cannot be responsible for any losses resulting from cancellation of a seminar.

Question #4

- Which of the following would typically be a reimbursable cost?
 - A Costs for employee OSHA training
 - B Costs for employee cell phones
 - C Costs for recruiting CM personnel
 - D Costs related to CM legal costs from Owner Contract
 - E Unsure/Don't Know/NA







Fort Hill Associates, LLC (877) 286-0408 www.forthillassociates.com

37 Villa Road Suite 106 Greenville, SC 29615

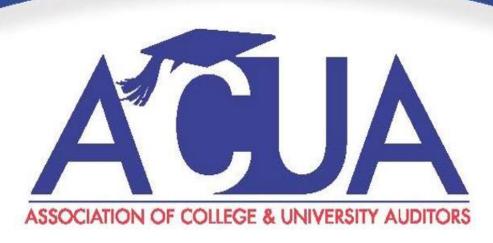


Future CPE events coming your way!

Webinars

July 28, 2022 – ACUA's Sideline Committee – Auditing Athletics August 11, 2022 – Data Analytics August 25, 2022 – Auditing Retroactive Withdrawals or Hardship Petitions

AuditCon September 11 – 15, 2022 Las Vegas, NV



Did you know that Connect ACUA allows you to post new messages directly from your email without logging in to the Connect ACUA website?

For more details, check out the Quick Tip post on

Connect.ACUA.org

Your Higher Education Auditing Connection





NCAA Compliance – Head Coach Responsibilities

Download today in the members-only Audit Tools section of www.ACUA.org





** ACUA Kick Starters Use a Kick Starter to launch your next audit!

- Developed by ACUA members with subject matter expertise
 - Focused on higher education specific topics

https://acua.org/Audit-Tools/ACUA-Kick-Starters



Do you have a great idea for an ACUA Kick Starter? Contact Lily Ly at lilylugaa.ufl.edu.





Advancing Auditing in Higher Education

Stay Updated

- The College and University Auditor is ACUA's official journal. Current and past issues are posted on the ACUA website.
- News relevant to Higher Ed internal audit is posted on the front page.
 Articles are also archived for your reference under the Resources/ACUA

Get Educated

- Take advantage of the several FREE webinars held throughout the year.
- Attend one of our upcoming conferences:

Audit Interactive Denver, CO March 27 – 27, 2023

AuditCon September 11 – 15, 2022 Las Vegas, NV

Contact ACUA Faculty for training needs.

Get Involved

- The latest Volunteer openings are posted on the front page of the website.
- Visit the listing of Committee Chairs to learn about the various areas where you might participate.
- Nominate one of your colleagues for an ACUA annual award.
- Submit a conference proposal.
- Present a webinar.
- Become a Mentor
- Write an article for the C&U Auditor.
- · Write a Kick Starter.

Connect with us



www.ACUA.org

Connect with Colleagues

- Subscribe to one or more Forums on the Connect ACUA to obtain feedback and share your insights on topics of concern to higher education internal auditors.
- Search the Membership Directory to connect with your peers.
- Share, Like, Tweet & Connect on social media.

Solve Problems

- Discounts and special offers from ACUA's Strategic Partners
- Kick Starters
- Risk Dictionary
- Mentorship Program
- NCAA Guides
- Resource Library
- Internal Audit Awareness Tools
- Governmental Affairs Updates
- Survey Results
- Career Center.....and much more