

**MASTER ENABLING AGREEMENT
COMMISSIONING**

This AGREEMENT is made and entered into this **1** day of **July, 2011** pursuant to the Public Contract Code 10700 *et seq.*, by and between the Trustees of The California State University on behalf of

University California State University	Agreement No: 2206	Amendment No: 1	Project No: Systemwide	Project Name: Monitor-Based Commissioning
hereafter referred to as Trustees, and Service Provider, Nexant, Inc.	CSU Vendor ID No. 4588		Federal ID No:	License No: M33013
Address of Service Provider 101 2nd Street, 10th Floor, San Francisco, CA 94105			Telephone No: 415-369-1000	Fax No: 415-365-4318

WITNESSETH: That the Service Provider in consideration of the covenants, conditions and agreements of the Trustees herein contained, does hereby agree to furnish all labor, materials, and equipment and to perform all work necessary to complete, in a skillful manner, the following:

Agreement No. 2211, dated May 6, 2010 is hereby amended as follows:

- This amendment exercises the option to extend the term for an additional one (1) year. The term of this Agreement shall be from July 1, 2010 through June 30, 2012 with one (1) one year extension option remaining.

Except as amended herein, all other terms and conditions of the original Agreement remain unchanged.

Service Provider shall report to Thomas Kennedy, Chief of Architecture and Engineering for Capital Planning, Design and Construction in the Office of the Chancellor.

The total amount to be expended under this Agreement shall be determined by the overall usage by each participating campus and the administrative office of the California State University.

IN WITNESS WHEREOF, this agreement has been executed by the parties hereto, upon date first above written.

THE TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY					SERVICE PROVIDER							
Campus California State University, Systemwide					Full Legal Name of Service Provider Nexant, Inc.							
By (Trustees' Authorized Signature) 					By (Service Provider's Authorized Signature) 							
Printed Name and Title of Person Signing for Trustees Elvyra F. San Juan, Assistant Vice Chancellor, Capital Planning.					Printed Name and Title of Person Signing for Service Provider TERRY M. FRY, SR VP							
Design and Construction 401 Golden Shore, Long Beach, CA 90802					Check appropriate box below that best describes Service Provider: <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation <input type="checkbox"/> Limited Liability Co. <input type="checkbox"/> Other (specify) _____							
SCO Account Data:		Fund	Sub Fund	Agency	Yr	Ref/Item	Category	Program Element	Component	Chapter	Fiscal Yr	Legal Reference
Fund Name Funds assigned on Service Order & Authorization to Proceed				6620							11/12	
Amount Encumbered \$0		I hereby certify upon my own personal knowledge that budgeted funds are available for the period and purpose of the expenditures stated above.										
Amount of Increase \$0		Accounting Officer signs "Service Order and Authorization to Proceed"										
Amount of Decrease \$0		I hereby certify that I have examined the written Agreement and find the same to be in accordance with the requirements of the California State University Contract Law. CHRISTINE HEJLWICK, General Counsel.										
Total Amount Encumbered \$0		By Attorney:										Date 6/15/11

COMMISSIONING MASTER ENABLING AGREEMENT (3/10/09)

This AGREEMENT is made and entered into this 6th day of May, 2010 pursuant to the Public Contract Code 10700 *et seq.*, by and between the Trustees of The California State University on behalf of

University California State University, Office of the Chancellor	Agreement No: 2206	Amendment No: N/A	Project No:	Project Name: Monitor-Based Commissioning
hereafter referred to as Trustees, and Service Provider, Nexant, Inc.	CSU Vendor ID No. 4588	Federal ID No:	License No: M33013	
Address of Service Provider 101 2nd Street, 10th Floor, San Francisco, CA 94105	Telephone No: 415-369-1000	Fax No: 415-365-4318		

WITNESSETH: That the Service Provider in consideration of the covenants, conditions and agreements of the Trustees herein contained, does hereby agree to furnish all labor, materials, and equipment and to perform all work necessary to complete, in a skillful manner, the following:

The Service Provider is to provide Monitor-Based Commissioning services for Public Works Projects submitted by the California State University (CSU). This agreement is a Master Enabling Agreement under which each campus and administrative office of the CSU may engage the services of Service Provider as provided herein. The Service Provider shall perform commissioning services in accordance with the following Riders and Exhibit, which by this reference are incorporated herein and made part of this Agreement.

- Rider A - Scope of Services and Payment Schedule, consisting of ten (10) pages;
- Rider B - Agreement General Provisions, consisting of three (3) pages;
- Exhibit A - Sample Service Order & Authorization to Proceed, consisting of one (1) page.

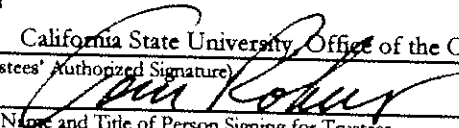
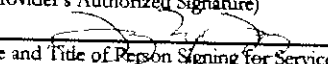
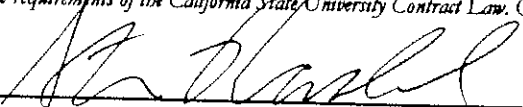
The term shall be from July 1, 2010 through June 30, 2011 with the option given the Trustees of extending the Agreement with the same terms and conditions for up to two (2) additional 1-year periods.

Service Provider shall report to Tom Kennedy, Capital Planning, Design and Construction in the Office of the Chancellor.

The total amount to be expended under this Agreement shall be determined by the overall usage by each participating campus and the California State University, Office of the Chancellor.

Payment shall be in accordance with Rider A.

IN WITNESS WHEREOF, this agreement has been executed by the parties hereto, upon date first above written.

THE TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY										SERVICE PROVIDER				
Campus California State University, Office of the Chancellor										Full Legal Name of Service Provider Nexant, Inc.				
By (Trustees' Authorized Signature) 										By (Service Provider's Authorized Signature) 				
Printed Name and Title of Person Signing for Trustees Tom Roberts, Director										Printed Name and Title of Person Signing for Service Provider TERRY M. FRY, SRVP				
Contract Services & Procurement 401 Golden Shore, Long Beach, CA 90802										Check appropriate box below that best describes Service Provider: <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation <input type="checkbox"/> Limited Liability Co. <input type="checkbox"/> Other (specify)				
SCO Account Data:														
Fund	Sub Fund	Agency	Yr	Ref/Item	Category	Program Element	Component	Chapter	Fiscal Yr	Legal Reference				
Funds assigned on Service Order & Authorization to Proceed				607806	PS Fund	1089	PS Program	PS Class	10-11	PS Project/Grant				
Amount Encumbered	I hereby certify upon my own personal knowledge that budgeted funds are available for the period and purpose of the expenditures stated above.													
\$0														
Amount of Increase	Accounting Office sign "Service Order & Authorization" to Proceed.													
\$0	Signature of Accounting Officer _____ Date _____													
Amount of Decrease	I hereby certify that I have examined the written Agreement and find the same to be in accordance with the requirements of the California State University Contract Law. CHRISTINE HELWICK, General Counsel.													
\$0	 7/1/10													
Total Amount Encumbered														
\$0														

Rider A

MONITORING-BASED COMMISSIONING (MBCx) SCOPE OF SERVICES AND PAYMENT SCHEDULE

I. MONITORING BASED COMMISSIONING (MBCx)

A. OBJECTIVES

This MBCx program includes installation of permanent whole building metering, with sub-system metering in selected buildings, establishing baseline building energy use, installing permanent energy information systems to collect trend profiles on energy use and key HVAC points, using the trend data to identify energy saving opportunities, implementing the low/no cost measures immediately, and verifying the energy savings through the monitoring capability. This combination of metering and commissioning breaks new ground in many ways:

1. Campus utilities are unmetered at many buildings so the installation of electric, gas, steam, hot water and chilled water meters often provides a first time opportunity to determine exactly how much energy each building uses.
2. New or upgraded energy information systems used to collect and analyze the trend data typically far exceed the existing capability of facility energy management and control systems, thereby enabling campuses to handle large quantities of data and closely track savings for years after the modifications. Implementation of new/upgraded metering and energy information systems also enable continuous commissioning for the useful life of the facility.
3. Metered energy use profiles are used as a powerful diagnostic tool to evaluate building performance and identify commissioning opportunities. These profiles also provide a critical tool to help campuses meet their broader sustainability goals.
4. The ability to analyze the data provides graphic demonstration of building performance, such as chiller efficiency vs. load, economizer position vs. outside air temperature, hot water loop temperature vs. outside air temperature.
5. Metering and analysis allows campuses to measure and prove the savings achieved following implementation, providing a built in measurement and verification function.
6. Dedicated metering on specific systems, such as motor control centers and VFDs, provide further refinement of system performance and energy savings.
7. Meters also provide the necessary information for building benchmarking newly mandated for California commercial buildings.
8. Once the database is installed and communicating with the facility management system, new buildings can be included for only the cost of the metering.
9. Projects shall include training of campus staff through hands-on interaction with the expert consultants assisting with commissioning activities and supplemented with a complete systems manual, detailed later in this scope.

B. SCOPE OF SERVICES – MONITORING BASED COMMISSIONING

Monitoring-Based Commissioning services shall be provided for the buildings, equipment or systems including but not limited to HVAC, lighting, process, controls, monitoring, and other energy-using equipment.

1. Planning Phase

- a. Organize and facilitate a meeting to introduce the MBCx Project Team, Outline the MBCx process, and review scope of services and goals.
- b. Develop a template document to record and track issues identified during the Planning, Pre-Investigation, Investigation, and Handoff Phases. This document, called the MBCx Findings Log, will be continually updated, and the latest version shall be submitted to the MBCx Project Team at the end of each phase of development. A summary report shall also be defined to allow for quick "at-a-glance" review of the status of outstanding issues. Following is a listing of the fields that should be included in the template document. (Note that not all fields will be relevant in all cases.)
 - 1) Issue Name and Assigned Number
 - 2) Description of Issue
 - 3) Date Issue was Identified
 - 4) Who Identified Issue
 - 5) Recommended Action to Address Issue
 - 6) Type of Improvement Opportunity
 - a) O&M
 - b) Repair
 - c) Capital Improvement
 - d) Other
 - 7) Estimated Impacts of Improvement Opportunity:
 - a) annual electric saving (k-Wh and \$)
 - b) annual gas saving (therms and \$)
 - c) peak demand savings (kW and \$)
 - d) O&M savings (\$)
 - e) other non-energy savings (\$ and qualitative benefits)
 - 8) Estimated Implementation Cost (\$)
 - 9) Estimated Simple Payback (years)
 - 10) Location and availability of Supporting Documentation
 - 11) Relevant trends and monitoring points
 - 12) Recommendations for Implementation Priority
 - 13) Current Status Date
 - 14) Current Status (choose one of the following as status changes)
 - a) Identified
 - b) Recommended
 - c) Reviewed
 - d) Planned for Implementation in MBCx Project
 - e) Planed for Implementation in Other Project
 - f) Implemented in MBCx Project
 - g) Implemented in Other Project
 - h) Deferred
 - 15) Responsibility to whom issue is assigned
 - 16) Notes
- c. Walk through the facility and observe the condition of the subject equipment, noting obvious indicators of potential savings, and equipment or operational problems.
- d. Meet with University representatives and determine the intended operation of the facility such as hours of operation, required space temperatures, required humidity levels, etc.

- e. Review facility operating logs or conduct interviews in order to identify the Improvement Opportunities. This might include items such as addressing EMCS/controls problems, maintenance concerns, repeated comfort complaints, indoor air quality concerns or equipment noise problems.
- f. Identify the existence of key equipment or system documentation, determine its location, and assess its accuracy and completeness. Identify any missing documentation. The identified documentation may include items such as as-built drawings, construction drawings, energy bills, equipment manuals, specifications, warranties and cut sheets, test and balance reports, control points list, and operating schedules.
- g. Determine and document the objectives for monitoring within the MBCx project, and the associated requirements. This should include items such as points to be monitored, required accuracy of data, frequency of measurement and downloads, communications capabilities, storage requirements, and pre-processing and analysis of data.
- h. Incentive Funding Applicant
 - 1) Use EMS, historical utility billing, and/or calculated estimates to estimate current facility energy consumption
 - 2) Use historical MBCx savings performance and/or calculated estimates to estimate savings achievements that will result from the project
 - 3) Estimate equipment and labor costs necessary to implement the project
 - 4) Establish a preliminary schedule for project implementation
 - 5) Use the most current version of the Higher Education/Investor Owned Utility Partnership Program MBCx Incentive Application, called Form C, submit to campus representatives and Chancellor's Office Energy Program Manager for review and approval
 - 6) The Cx agent will be responsible for addressing any questions/clarifications presented by the Partnership Program application reviewers.
- i. Develop MBCx Plan Document, to include the items listed below:
 - 1) An overview of the MBCx process
 - 2) A list of requirements, features and systems to commission
 - 3) Identification of primary MBCx participants and their responsibilities.
 - 4) A description of the management, communication, and reporting processes.
 - 5) An outline of the MBCx process scope
 - 6) A list of the expected written deliverables
 - 7) An activity schedule
 - 8) A detailed description of the rigor and scope of Functional Performance Testing
 - 9) The monitoring point list
 - 10) A list of all diagnostics
- j. Develop a Measurement and Verification Plan, to identify how the savings from the project will be measured upon completion of the project. The plan should also address ongoing savings past this date. Savings shall include both energy savings and maintenance savings. M&V plan shall include the following topics:
 - 1) Objectives
 - 2) Approach to Verifying Benefits at Conclusion of Commissioning
 - 3) Approach to Verifying Benefits at End of Year One
 - 4) Approach to Tracking Benefits Over Time
 - 5) Roles and Responsibilities

- 6) Information to Collect
 - 7) Data Required to Establish a Baseline
 - 8) Variables to Measure

 - 9) Required Accuracy
 - 10) Sampling Rates and Download Frequencies
 - 11) Data Store Requirements
 - 12) Analysis to Conduct (Diagnostic Routines)
 - 13) Documentation to Provide
- k. Revise MBCx and M&V plans as needed to implement Project Team recommendations.
- l. Review MBCx Findings Log to ensure that it is complete and that the status of issues is up-to-date.
- m. Prepare a Draft MBCx Report, including the following sections. These, and subsequent sections will be updated throughout the project as needed:
- 1) Initial Site Assessment
 - 2) Operational Requirements
 - 3) Known Improvement Opportunities
 - 4) Available and Missing Documentation
 - 5) MBCx Plan Document
 - 6) Measurement & Verification Plan
 - 7) Current Version of the Findings Log

2. Pre-Investigation Phase

- a. Identify preventative maintenance activities that must be accomplished before a meaningful investigation can be conducted. This may include items such as maintaining sensors and actuators that are known to require maintenance, or adding refrigerant charge to rooftop units.
- b. Study building plans and walk-through the building to determine the capabilities of the existing monitoring systems in comparison with the MBCx program requirements. Identify system deficiencies that will have to be addressed before monitoring can commence.
- c. Calibrate any of the sensors that are required for commissioning and in need of calibration. Document calibration activities.
- d. EMS/BMS Upgrades and Monitoring Equipment Installation
 - 1) Determine a plan for supplementing the existing monitoring capabilities which might include upgrading the existing capabilities or installing permanent monitoring equipment used to establish performance baselines.
 - 2) Develop specifications for system instrumentation to be procured and installed and identify suitable providers.
 - 3) Procure instrumentation.
 - 4) Install instrumentation.
 - 5) Commission instrumentation.
- e. Setup Trends and Data Collection Routines
 - 1) Identify the points that are to be monitored and the sampling and download frequencies. A sampling rate of five minutes or less is recommended for most points. The download frequency will depend on the analysis and diagnostics planned, but should probably be at least weekly.

- 2) Setup trends in the EMCS software to begin collecting these data. Setup and test any necessary mechanisms to transfer data to a central platform for analysis.
 - 3) If data loggers are installed, program them to collect the necessary information and subsequently transfer the information to a central platform for analysis. Test the communications mechanisms to ensure that data are transferred reliably
- f. Collect at least one day of data from the EMCS or data loggers.
- g. Assess Data Quality
- 1) Review tables or charts of collected data to assess reasonableness. If any data seems to be providing unreasonable results, investigate any possible problems with the data.
 - 2) Fix any data problems that are found from review the data.
- h. Prepare for Data Analysis
- 1) Set up routines to calculate factors and metrics required for commissioning of systems. Create template charts and tables of collected and calculated data.
 - 2) Make sure data meets the needs of the M&V plan.
- i. Review and update the Findings Log to ensure that it is complete and that the status of issues is up-to-date.
- j. Update the Draft MBCx Report, by updating sections 1 through 7 from the Planning Phase and by adding the following sections:
- 8) Preventative Maintenance Activities Required and Performed
 - 9) Evaluation of Existing Monitoring System
 - 10) Sensor Calibration Required and Performed
 - 11) EMCS or monitoring Upgrades Required and Performed
 - 12) Trends and Data Collection Routines
 - 13) Sample Data Collection
 - 14) Data Quality Assessment
 - 15) Data Analysis Preparation
 - 16) Current Version of the MBCx Findings Log

3. Investigation Phase

- a. Update MBCx Plan as needed to reflect the findings or changes as a result of the Pre-Investigation Phase and submit to the MBCx Project team for review and approval.
- b. Collect sufficient data to establish baseline performance, and to identify operating characteristics of the building, system or equipment. Data collection procedures and durations should be consistent with the guidelines as set forth in the MBCx Project Requirements for the Higher Education/Investor Owned Utility Partnership Programs in place at the time of an MBCx project. This document may be provided by the CSU Chancellor's Office Energy Program Manager.
- c. Analyze Data
 - 1) Analyze data to identify issues and Improvement Opportunities, and record in the MBCx Findings Log.
 - 2) Define Functional Performance Testing needed to identify further Improvement Opportunities.
- d. Analyze utility and collected data to establish building, system, or equipment baseline performance.

- e. Conduct Functional Performance Testing
 - 1) Determine the objectives and scope of Functional Performance Testing.
 - 2) Draft and submit a Functional Performance Test protocol. See, for example, the Functional Test Guide and the Commissioning Functional Test Protocol Library at <http://peci.org/ftguide/ftg/index.htm>
 - 3) Perform Functional Performance Testing.
 - 4) Witness Functional Performance Testing.
 - 5) Collect and analyze trend data and other data generated from Functional Performance Tests to identify Improvement Opportunities. Update MBCx Findings Log accordingly.
- f. Evaluate Improvements in the MBCx Findings Log and recommend which improvements should be implemented during the course of this project, and which should be addressed through future work. Provide prioritization. Provide supporting information, including: any calculations, trend and portable logger data, functional test results, building simulation parameters and results, site visit reports, or photographs that were used to identify the problem or opportunity.
- g. Update the Draft MBCx Report by updating sections 1 through 7 of the planning phase and 8 through 16 of the pre-investigation phase and by adding the following sections:
 - 17) Data Analysis (include descriptions of analysis performed, noted discrepancies, system trends and optimization opportunities)
 - 18) Baseline
 - 19) Functional Performance Test Protocol
 - 20) Functional Performance Testing (include dates and descriptions of tests performed, noted discrepancies, system trends, and optimization opportunities.
 - 21) Analysis of Improvement Opportunities and Recommendations
 - 22) Current Version of the Findings Log
- h. Present Draft MBCx Report to the MBCx Project Team, and work with the Team to select Improvements to implement.

4. Implementation Phase

- a. Update MBCx Plan as needed to reflect the findings of the Investigation Phase.
- b. Implement Selected Improvements
 - 1) Implement selected improvements. It is expected that this may involve activities such as implementing changes in the control programming, tuning control loops, performing maintenance tasks, and implementing simple repairs of system components. The Contractor will not provide materials, and no extensive repairs will be included.
 - 2) Oversee implementation of selected improvements that are implemented by campus staff or outside contractors.
- c. Review any updated graphics, points list, and new or revised sequences of operation.
- d. Inspect and verify any improvements to equipment or systems, and repeat Functional Performance Tests and collect and review trend data as needed in order to witness and document improved performance.

- e. Document Remaining Improvement Opportunities
 - 1) For the Improvement Opportunities that were not initially selected for implementation, including the more extensive or capital-intensive improvements; provide evidence of the potential benefits, and a rough estimate of the scope of effort required.
 - 2) Assist the University with obtaining hard costs for implementing the remaining Improvement Opportunities.
- f. Review Findings Log to ensure that it is complete and that the status of findings is up-to-date.
- g. Update the Draft MBCx Report, by updating sections 1 through 7 of the planning phase, 8 through 16 of the pre-investigation phase, 17 through 22 of the investigation phase, and by adding the following sections:
 - 23) Improvements Implemented (Log and description)
 - 24) Performance Improvement Verification
 - 25) EMCS Update Verification
 - 26) Remaining Improvement Opportunities (description, costs, savings)
 - 27) Current Version of the Findings Log

5. Handoff Phase

- a. Update MBCx Plan as needed to reflect the findings of the Implementation Phase and submit to the MBCx Project Team for review.
- b. Based upon the findings of the investigation phase and the new instrumentation installed, work with the campus staff to develop specifications set up performance variance alerts, and implement data trending routines and controls programming for ongoing diagnostic tests to be conducted by the building operation staff or regular service contractors.
- c. Provide Training
 - 1) In the course of delivering pre-investigation and investigation phase tasks, work with campus staff with a goal of training them on the procedures. This may include topics such as identification and installation of additional monitoring points and additional ongoing diagnostic tests. To ensure the persistence of savings from the MBCx activities, campus staff should have a clear understanding of the points being monitored, the collected trends and the diagnostic routines.
 - 2) At project conclusion, train campus staff on the operation of the optimized facility and equipment, discuss maintenance procedures and review the use of documentation including the systems manual. Also discuss energy saving projections and recommended corrective actions.
- d. Work with campus staff to incorporate the findings of the project into ongoing O&M activities. Place a particular emphasis on ongoing trending and re-commissioning of systems to ensure persistence of savings.
- e. Follow the agreed-upon M&V procedures for verifying the expected benefits at the conclusion of commissioning, and estimate the operating savings achieved through the improvements implemented.
- f. Review trended data and establish a new baseline for energy performance.
- g. Review Findings Log to ensure that it is complete and that the status of findings is up-to-date.
- h. Update Draft and Submit Final MBCx Report by updating sections 1 through 7 of the planning phase, 8 through 16 of the pre-investigation phase, 17 through 22 of the investigation phase, 23 through 27 of the implementation phase and by adding the following sections:

- 28) Ongoing Diagnostics
- 29) Training
- 30) O&M Plan
- 31) Report on Verification of Benefits and Estimation of Operating Savings
- 32) Establishment of New Baseline
- 33) Final Findings Log

- i. Draft and submit a MBCx Systems Manual, to include the following sections. Once the Final MBCx Report and Systems Manual are approved by the project team, the appropriate project completion notification forms shall be filled out and submitted to the appropriate utility, along with a copy of the Systems Manual, for review.

- 1) Final MBCx Report
- 2) General building or plant description
- 3) Systems diagram
- 4) Building and equipment schedules
- 5) Summary of available documents
- 6) Building control point list
- 7) Equipment list, description
- 8) Sequence of operation
- 9) Control set points
- 10) Alarm set points
- 11) Available monitoring points and active trending capabilities
- 12) Control graphics or diagrams
- 13) O&M Plan
- 14) Ongoing diagnostics
- 15) M&V Plan

6. Oversight

- a. During the course of the project; conduct periodic (at least monthly) meetings of the MBCx Project Team. Develop and circulate meeting agendas, facilitate meetings, compile and circulate minutes.
- b. Submit monthly progress reports to the project manager. This shall include accomplishments, plans, milestones, issues and financial aspects.

C. SERVICE DURATION

Service duration shall be negotiated with the Service Provider

D. FEE SCHEDULE (MBCx)

Fee for MBCx of a building/group of buildings or a Central Plant shall be negotiated with the Service Provider based on the floor area and complexity of the systems. Service provider shall provide scope and a detailed cost breakdown of the each task. The fee developed for each task shall be based on the following hourly rate schedule:

<u>Discipline</u>	<u>Maximum Rate</u>
Senior Program/Project Mgr. PE, CLMP	\$195 Per Hour
Senior Energy Engineer PE	\$175 Per Hour
Energy Engineer	\$125 Per Hour
Energy analyst / Junior Engineer	\$90 Per Hour
Field technician	\$75 Per Hour
CAD Operator	\$75 Per Hour
Engineering/Administrative Assistant	\$60 Per Hour

E. PAYMENTS:

Payments for services shall be made in arrears for work completed to the satisfaction of the Trustees upon presentation of a written statement not exceeding the amounts specified below:

F. INVOICING:

Invoicing for services shall:

1. Be sent to the campus project manager named in the Service Order & Authorization to Proceed;
2. Identify campus, project name, and project reference number;
3. Reference the Service Order Authorization number being billed against;
4. Indicate what work and the percentage completed on each invoice; and
5. Reference only a single project per invoice.

G. REIMBURSABLE EXPENSES:

The fee for monitoring based commissioning shall include normal operating expenses incidental to this work. Reimbursable expenses should not be needed in the typical course of providing commissioning services. Extra services if any shall be paid in arrears when completed

The following are not reimbursable expenses:

- a. Travel expenses incurred in the course of providing commissioning services are included in the base fee amount and are not reimbursable.
- b. Shipping charges, phone calls, faxes, consumables, etc. incurred in the course of providing commissioning services are included in the base fee amount and are not reimbursable.

H. EXTRA SERVICES:

1. Via additional Service Order Authorizations and scope of services, the Campus may authorize supplemental services related to the commissioning process. Examples of such services would include the constructability Review
2. Extra services may also include reports and studies of the building mechanical systems as defined by the campus project manager.

3. Extra Services require pre-authorization in writing by the campus project manager and shall be issued as a separate Service Order & Authorization to Proceed. Campus project manager shall provide separate scope of services and fee schedule for this work. Extra Services for different tasks may be combined into one Service Order & Authorization to Proceed. Work across separate projects must be separately authorized.
4. Extra services if any shall be paid in arrears when completed

Rider B - Agreement General Provisions

1. Trustees agree to pay for the services and materials to be furnished by Service Provider as provided by this Agreement. Payment in arrears shall be made upon Service Provider's completion of the services required by this Agreement to the satisfaction of the Trustees and upon Service Provider's submission of billings as shall be prescribed by the Trustees.
2. Service Provider, in the performance of this Agreement, is an independent contractor and is not an employee, agent, or officer of the Trustees.
3. Trustees may cancel this Agreement should Service Provider fail to perform as herein provided. In the event of such cancellation, Trustees shall be relieved of the obligation to make any payment to Service Provider and Trustees may proceed with the work in any manner the Trustees deem proper.
4. Trustees may terminate this Agreement either upon giving fifteen (15) days written notice or upon the immediate notice with payment of \$25.00 to Service Provider. Payment shall be complete by mailing payment to Service Provider at the address appearing on the face of this Agreement. In the event of such termination, Service Provider shall be paid only for the work satisfactorily completed.
5. Service Provider shall not assign benefits or delegate duties under this Agreement in whole or in part without the prior written approval of the Trustees. Thus, Service Provider may not assign any moneys due or to become due hereunder without the written consent of Trustees.
6. The provisions of this Agreement shall extend to and be binding upon and inure to the benefit of the heirs, executors, administrators, successors and assigns to the parties hereto.
7. No alteration or variation of the terms of this Agreement shall be valid unless made in writing and signed by the parties. Oral understandings or other agreements not incorporated herein shall not be binding.
8. Trustees may issue a written order with respect to the services to be performed under this Agreement at any time before the completion of the services. Trustees shall pay Service Provider an amount for such services as provided in this Agreement, or if not so provided, Trustees shall pay Service Provider a reasonable amount, which shall be agreed upon by the parties.
9. Any notice, which may be proper or necessary for either of the parties hereto to serve on the other, in case of Trustees, may be served effectually upon Trustees by delivering it in writing, addressed to the Trustees of the California State University, attention of the official executing this Agreement for Trustees, at 401 Golden Shore, Long Beach, CA 90802 or by depositing it in a United States mail deposit box with first class postage thereon fully prepaid and addressed to Trustees at the above-mentioned address. In the case of Service Provider, notice may be served effectually upon Service Provider by delivering it in writing to Service Provider at the address appearing on the first page of this Agreement or depositing it in a United States mail deposit box with first class postage thereon fully prepaid, and addressed to Service Provider at the Service Provider's above-mentioned address. Any notice may also be served effectually by delivering or mailing it, as in this section provided, addressed to Trustees or Service Provider at any other place or places which Trustees or Service Provider, by written notice served upon the other, may designate, provided, however, that nothing herein shall preclude the giving of notice by personal service.
10. In the performance of this Agreement, the Service Provider will not discriminate against any employee or applicant for employment because of race, color, religion, ancestry, sex, age, national origin, physical handicap, medical condition, or marital status. The Service Provider will take action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, ancestry, sex, age, national origin, physical handicap, medical condition, or marital status as prohibited by the California Fair Employment and Housing Act (Government Code Section 12900 *et seq.*).
11. Service Provider shall not utilize any information, not a matter of public record, which is received by reason of this Agreement, for pecuniary gain not contemplated by the terms of this Agreement, regardless of whether Service Provider is or is not under contract at the time such gain is realized (Education Code Section 89006).
12. The report, survey, or other product developed by Service Provider pursuant to this Agreement is the property of Trustees, and shall not be used in any manner by Service Provider unless authorized by Trustees.

13. In executing this service agreement, Service Provider swears, under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against Service Provider within the immediately preceding two-year period because of Service Provider's failure to comply with an order of a federal court which orders Service Provider to comply with an order of the National Labor Relations Board. Trustees may rescind this contract if Service Provider falsely swears to this statement (Public Contract Code Section 10296).
14. If the Agreement exceeds \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor of the State of California for a period of three years after final payment under the Agreement. This examination and audit shall be confined to those matters connected with the performance of this contract, including, but not limited to, the cost of administering this Agreement (Government Code Section 8546.7).
15. The Service Provider hereby certifies compliance with Government Code Sections 8355, 8356, and 8357 in matters relating to providing a drug-free workplace. In accordance with Government Code Section 8355, the Service Provider shall:
 - A. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations;
 - B. Establish a Drug-Free Awareness Program to inform employees about all of the following:
 - (1) The dangers of drug abuse in the workplace,
 - (2) The Service Provider's policy of maintaining a drug-free workplace,
 - (3) Any available counseling, rehabilitation, and employee assistance programs, and
 - (4) Penalties that may be imposed upon employees for drug abuse violations;
 - C. Require that each employee engaged in the performance of the Agreement be given a copy of the statement required by subpart A, and require that each employee, as a condition of employment on the Agreement, agree to abide by the terms of the statement.
16. Responsive to direction from the State Legislature (Public Contract Code Section 10115 *et seq.*), the Trustees are seeking to increase the statewide participation of disabled veteran business enterprises in contract awards. To this end, Service Provider shall inform the Trustees of any contractual arrangements with consultants or suppliers that are certified disabled veteran business enterprises.
17. If the Service Provider is a natural person, the Service Provider certifies by signing this Agreement that s/he is a citizen or national of the United States or otherwise qualified to receive public benefits under the Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193; 110 STAT. 2105, 2268-69), State of California Governor's Executive Order W-135-96.
18. If the Service Provider is a corporation, the Service Provider certifies and declares by signing this Agreement that it is eligible to contract with the State of California pursuant to the California Taxpayer and Shareholder Protection Act of 2003 (Public Contract Code Section 10286 *et seq.*).
19. The Service Provider shall not commence work until it has obtained all the insurance required in this Article, and such insurance has been approved by the Trustees.
 - A. Service Provider shall obtain and maintain the following policies and coverage. The insurance furnished by the Service Provider under this Article shall provide coverage in amounts not less than the following, unless a different amount is stated on the Cover Page of this Agreement:
 - (1) Comprehensive or Commercial Form General Liability Insurance: on an occurrence basis, covering work done or to be done by or on behalf of the Service Provider and providing insurance for bodily injury, personal injury, property damage, and contractual liability. The aggregate limit shall apply separately to the work. Limits of Liability:
\$2,000,000.00 General Aggregate
\$1,000,000.00 Each Occurrence—combined single limit for bodily injury and property damage.
 - (2) Business Automobile Liability Insurance: on an occurrence basis, covering owned, scheduled, hired, and non owned automobiles used by or on behalf of the Service Provider and providing insurance for bodily injury, property damage, and contractual liability. Limits of Liability:
\$1,000,000.00 Each Accident—combined single limit for bodily injury and property damage.
 - (3) Workers' Compensation: including Employers Liability limits of \$1,000,000.00 and other limits as required under California law.

- (4) Errors and Omissions Insurance: on an occurrence basis is preferred, covering work done or to be done by or on behalf of the Service Provider and providing insurance for errors and omissions in the amount of \$1,000,000.00 each occurrence. At a minimum, Service Provider shall obtain and maintain errors and omissions insurance on a claims-made basis for no less than \$1,000,000.00 each claim and \$2,000,000.00 annual aggregate, and certification of coverage shall be submitted to the Trustees upon signing of this Agreement. If the total contract amount exceeds \$1,000,000, Service Provider shall renew and keep such insurance in effect for at least five (5) years after the recordation of the notice of completion.
- B. Service Provider shall submit to the Trustees certificates of insurance and original endorsements to the policies of insurance required by the agreement as evidence of the insurance coverage. The scope of coverage and deductible shall be shown on the certificate of insurance. The certificates of insurance and endorsements shall provide for no cancellation of coverage without thirty (30) days written notice to the Trustees, as specified in Section 19-C (3). Renewal certifications and endorsements shall be timely filed by the Service Provider for all coverage until the work is accepted as complete. The Trustees reserve the right to require the Service Provider to furnish the Trustees complete, certified copies of all required insurance policies. The Service Provider shall notify the Trustees in writing of any material change in insurance coverage.
- C. The insurance policies shall contain, or be endorsed to contain, the following provisions.
- (1) For the general and automobile liability policies, the State of California, the Trustees of the California State University, the University, their officers, employees, representatives, volunteers, and agents shall be covered as additional insureds.
 - (2) For any claims related to the work, the Service Provider's insurance coverage shall be primary insurance as respects the State of California, the Trustees of the California State University, the University, their officers, employees, representatives, volunteers, and agents. Any insurance or self-insurance maintained by the State of California, the Trustees of the California State University, the University, their officers, employees, representatives, volunteers, and agents shall be in excess of the Service Provider's insurance and shall not contribute with it.
 - (3) Each insurance policy required by this Article shall state that coverage shall not be canceled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Trustees.
 - (4) The State of California, the Trustees of the California State University, the University, their officers, employees, representatives, volunteers, and agents shall not by reason of their inclusion as additional insureds incur liability to the insurance carriers for payment of premiums for such insurance.
- D. Insurers shall be licensed by the State of California to transact insurance and shall hold a current A.M. Best's rating of no less than A:VII or equivalent carrier otherwise acceptable to the Trustees.
- E. Miscellaneous.
- (1) Any deductible under any policy of insurance required in this Article shall be Service Provider's liability.
 - (2) Acceptance of certificates of insurance by the Trustees shall not limit the Service Provider's liability under the agreement.
 - (3) In the event the Service Provider does not comply with these insurance requirements, the Trustees may, at its option, provide insurance coverage to protect the Trustees. The Service Provider shall pay the cost of the insurance and, if prompt payment is not received by the insurance carrier from the Service Provider, the Trustees may pay for the insurance from agreement sums otherwise due the Service Provider.
 - (4) If the Trustees are damaged by the failure of Service Provider to provide or maintain the required insurance, the Service Provider shall pay the Trustees for all such damages.
 - (5) The Service Provider's obligations to obtain and maintain all required insurance are non-delegable duties under this agreement.
20. The Service Provider agrees to hold harmless, defend, and indemnify the State of California, the Trustees of the California State University, the University, and the officers, employees representatives, and agents of each of them from any and all claims, damages, losses, causes of action and demands, and all costs and expenses incurred in connection therewith, resulting from or in any manner arising out of or in connection with any negligent act or omission or willful misconduct on the part of the Service Provider, its officers, agents, and employees, in the performance of this Agreement. This provision shall survive the expiration or termination of this Agreement.
21. In accordance with Labor Code Section 1720, Service Provider must pay employees the minimum prevailing rate wages for inspection, surveying, or similar work during the design, preconstruction, and construction phases of a public works project.