APPENDIX A

HAWAII STATUTES:
ENERGY RETROFIT AND PERFORMANCE CONTRACTING
FOR PUBLIC FACILITIES

§36-41 Energy retrofit and performance contracting for public facilities.

(a) All agencies shall evaluate and identify for implementation energy efficiency retrofitting through performance contracting. Agencies that perform energy efficiency retrofitting may continue to receive budget appropriations for energy expenditures at an amount that shall not fall below the pre-retrofitting energy budget but shall rise in proportion to any increase in the agency's overall budget for the duration of the performance contract or project payment term.

(b) Any agency may enter into a multi-year energy performance contract for the purpose of undertaking or implementing energy conservation or alternate energy measures in a facility or facilities. An energy performance contract may include but shall not be limited to financing options such as leasing, lease-purchase, financing agreements, third-party joint ventures, guaranteed-savings plans, or energy service contracts, or any combination thereof; provided that in due course the agency may receive title to the energy system being financed. Except as otherwise provided by law, the agency that is responsible for a particular facility shall review and approve energy performance contract arrangements for the facility.

(c) Notwithstanding any law to the contrary relating to the award of public contracts, any agency desiring to enter into an energy performance contract shall do so in accordance with the following provisions:

(1) The agency shall issue a public request for proposals, advertised in the same manner as provided in chapter 103D, concerning the provision of energy efficiency services or the design, installation, operation, and maintenance of energy equipment or both. The request for proposals shall contain terms and conditions relating to submission of proposals, evaluation and selection of proposals, financial terms, legal responsibilities, and other matters as may be required by law and as the agency determines appropriate;

(2) Upon receiving responses to the request for proposals, the agency may select the most qualified proposal or proposals on the basis of the experience and qualifications of the proposers, the technical approach, the financial arrangements, the overall benefits to the agency, and other factors determined by the agency to be relevant and appropriate;
(3) The agency thereafter may negotiate and enter into an energy performance contract with the person or company whose proposal is selected as the most qualified based on the criteria established by the agency;

(4) The term of any energy performance contract entered into pursuant to this section shall not exceed twenty years;

(5) Any contract entered into shall contain the following annual allocation dependency clause:

"The continuation of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the applicable funding authority. If that authority fails to appropriate sufficient funds to provide for the continuation of the contract, the contract shall terminate on the last day of the fiscal year for which allocations were made";

(6) Any energy performance contract may provide that the agency shall ultimately receive title to the energy system being financed under the contract;

(7) Any energy performance contract shall provide that total payments shall not exceed total savings; and

(8) For any guaranteed-savings plan:

(A) The payment obligation for each year of the contract, including the year of installation, shall be guaranteed by the private sector person or company to be less than the annual energy cost savings attributable under the contract to the energy equipment and services. Such guarantee, at the option of the agency, shall be a bond or insurance policy, or some other guarantee determined sufficient by the agency to provide a level of assurance similar to the level provided by a bond or insurance policy; and

(B) In the event that the actual annual verified savings are less than the annual amount guaranteed by the energy service company, the energy service company, within thirty days of being invoiced, shall pay the agency, or cause the agency to be paid, the difference between the guaranteed amount and the actual verified amount.

(d) For purposes of this section:

"Agency" means any executive department, independent commission, board, bureau, office, or other establishment of the State or any county government, the judiciary, the University of Hawaii, or any quasi-public institution that is supported in whole or in part by state or county funds.
“Energy performance contract” means an agreement for the provision of energy services and equipment, including but not limited to building or facility energy conservation enhancing retrofits, water saving technology retrofits, and alternate energy technologies, in which a private sector person or company agrees to finance, design, construct, install, maintain, operate, or manage energy systems or equipment to improve the energy efficiency of, or produce energy in connection with, a facility in exchange for a portion of the cost savings, lease payments, or specified revenues, and the level of payments is made contingent upon the verified energy savings, energy production, avoided maintenance, avoided energy equipment replacement, or any combination of the foregoing bases. Energy conservation retrofits also include energy saved off-site by water or other utility conservation enhancing retrofits.

"Facility" means a building or buildings or similar structure, including the site owned or leased by, or otherwise under the jurisdiction of, the agency.

"Financing agreement" shall have the same meaning as in section 37D-2.

"Guaranteed-savings plan" means an agreement under which a private sector person or company undertakes to design, install, operate, and maintain improvements to an agency's facility or facilities and the agency agrees to pay a contractually specified amount of verified energy cost savings.

"Verified" means the technique used in the determination of baseline energy use, post-installation energy use, and energy and cost savings by the following measurement and verification techniques: engineering calculations, metering and monitoring, utility meter billing analysis, computer simulations, mathematical models, and agreed-upon stipulations by the customer and the energy service company.

[l 1986, c 72, §1; am l 1989, c 275, §1; am l Sp 1993, c 8, §54; am l 1997, c 192, §1; am l 2000, c 158, §1; am l 2004, c 98, §1]
APPENDIX B

SITE SELECTION CRITERIA

✓ Energy STAR rating score of 50 or less, or uses more than 24 kWh/sf

✓ Very low efficiency of major energy consuming equipment

✓ Excessive run times and operating hours for equipment

✓ Lighting system equipment older than 10 years of age

✓ Most primary HVAC equipment older than 10 years of age

✓ Most building controls older than 10 years of age, or no building controls

✓ Expensive external maintenance contract costs in excess of $50,000/year

✓ Internal staff overtime maintenance costs in excess of $10,000/year

✓ High inventory costs for equipment and materials
APPENDIX C

STATE OF HAWAII

STATE PROCUREMENT OFFICE

SPO Vendor List No. 09-01
November 14, 2008

ENERGY SAVINGS PERFORMANCE CONTRACTING SERVICES
(RFP-08-022-SW)
December 1, 2008 to November 30, 2010

PARTICIPATING JURISDICTIONS listed below may purchase from this contract:

- Executive Branch, including the Department of Education and Office of Hawaiian Affairs
- Legislative Branch: House of Representatives and Senate
- Judiciary
- City & County of Honolulu (Finance, Council and Board of Water Supply)
- County of Hawaii (Finance, Council and Board of Water Supply)
- County of Kauai (Finance, Council and Department of Water Supply)
- County of Maui (Finance, Council and Department of Water Supply)
- University of Hawaii
- Hawaii Health System Corp. (HHSC)

Participants are not mandated to purchase from the listed Energy Service Companies (ESCO) and waivers from the use of the Vendor List (VL) will not be required. Participants are allowed to purchase energy savings performance contract services from other sources; however, Hawaii Revised Statutes (HRS), Chapter 103D and the procurement rules will apply to purchases outside of this contract, unless the agency is exempt from HRS, Chapter 103D. The decision to use this VL or to solicit pricing from other sources will be at the discretion of the agency.

Questions related to the services provided by this VL shall be directed to Ernest Lau at phone number (808) 586-0526.

Procurement questions or complaints may be directed as follows:
<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Name</th>
<th>Telephone</th>
<th>FAX</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive</td>
<td>Donn Tsuruda-Kashiwabara</td>
<td>586-0565</td>
<td>586-0570</td>
<td><a href="mailto:donna.tsuruda-kashiwabara@hawaii.gov">donna.tsuruda-kashiwabara@hawaii.gov</a></td>
</tr>
<tr>
<td>Judiciary</td>
<td>Newton Sakamoto</td>
<td>538-5805</td>
<td>538-5802</td>
<td><a href="mailto:newton.t.sakamoto@courts.state.hi.us">newton.t.sakamoto@courts.state.hi.us</a></td>
</tr>
<tr>
<td>Senate</td>
<td>Carol Taniguchi</td>
<td>586-6720</td>
<td>586-6719</td>
<td><a href="mailto:adele@capitol.hawaii.gov">adele@capitol.hawaii.gov</a></td>
</tr>
<tr>
<td>House</td>
<td>Patricia Mau Shimizu</td>
<td>586-6400</td>
<td>586-6401</td>
<td></td>
</tr>
<tr>
<td>OHA</td>
<td>Ernest Kimoto</td>
<td>594-1954</td>
<td>594-1865</td>
<td><a href="mailto:ErnieK@OHA.org">ErnieK@OHA.org</a></td>
</tr>
<tr>
<td>DOE</td>
<td>Procurement Staff</td>
<td>675-0130</td>
<td>675-0133</td>
<td><a href="mailto:carlton_chinen@notes.k12.hi.us">carlton_chinen@notes.k12.hi.us</a></td>
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<tr>
<td>U.H.</td>
<td>Matt Chow (primary)</td>
<td>956-2765</td>
<td>956-2096</td>
<td><a href="mailto:chowmatt@hawaii.edu">chowmatt@hawaii.edu</a></td>
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<tr>
<td></td>
<td>Gwen Won</td>
<td>956-8687</td>
<td>956-2093</td>
<td><a href="mailto:gwon@hawaii.edu">gwon@hawaii.edu</a></td>
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<tr>
<td>HHSC</td>
<td>Emmitt H. Ford</td>
<td>733-4024</td>
<td>733-4460</td>
<td><a href="mailto:FFord@hhsc.org">FFord@hhsc.org</a></td>
</tr>
<tr>
<td></td>
<td>Alice Hall</td>
<td>733-4024</td>
<td>733-4024</td>
<td><a href="mailto:AHall@hhsc.org">AHall@hhsc.org</a></td>
</tr>
<tr>
<td>Honolulu City and County</td>
<td>Clayton Wong</td>
<td>527-5654</td>
<td>523-4220</td>
<td><a href="mailto:Cwong@honolulu.gov">Cwong@honolulu.gov</a></td>
</tr>
<tr>
<td>Kauai Council</td>
<td>Peter Nakamura</td>
<td>241-6371</td>
<td>241-6349</td>
<td><a href="mailto:pnakamura@kauaigov.com">pnakamura@kauaigov.com</a></td>
</tr>
<tr>
<td>Hawaii Council</td>
<td>Gilbert Benevides Per</td>
<td>961-8231</td>
<td>961-8248</td>
<td><a href="mailto:gil_benevides@co.hawaii.hi.us">gil_benevides@co.hawaii.hi.us</a></td>
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<tr>
<td></td>
<td>kenneth Goodenow Deputy</td>
<td>961-8388</td>
<td>961-8248</td>
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<tr>
<td></td>
<td>County Clerk</td>
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<tr>
<td>Maui Council</td>
<td>Martha Suzuki</td>
<td>270-7661</td>
<td>270-7686</td>
<td><a href="mailto:Martha.Suzuki@mauicounty.us">Martha.Suzuki@mauicounty.us</a></td>
</tr>
<tr>
<td>Honolulu Board of</td>
<td>Procurement Staff Per</td>
<td>748-5000</td>
<td>550-9193</td>
<td><a href="mailto:contactUs@hbws.org">contactUs@hbws.org</a></td>
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<td>Water Supply</td>
<td>Kathryn Kanemori</td>
<td></td>
<td></td>
<td><a href="mailto:KKanemori@hbws.org">KKanemori@hbws.org</a></td>
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<tr>
<td></td>
<td>Procurement Officer</td>
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<tr>
<td>Maui Dept. of Water</td>
<td>Kenneth L. Bissen</td>
<td>270-7684</td>
<td>270-7136</td>
<td><a href="mailto:ken.bissen@co.maui.hi.us">ken.bissen@co.maui.hi.us</a></td>
</tr>
<tr>
<td></td>
<td>Holly Perdido</td>
<td>270-7684</td>
<td>270-7136</td>
<td><a href="mailto:holly.perdido@co.maui.hi.us">holly.perdido@co.maui.hi.us</a></td>
</tr>
<tr>
<td>Kauai Dept. of Water</td>
<td>Clarita M. Remigio</td>
<td>245-5423</td>
<td>245-5813</td>
<td><a href="mailto:cremigio@kauaiwater.org">cremigio@kauaiwater.org</a></td>
</tr>
<tr>
<td></td>
<td>Faye Tateishi</td>
<td>245-5426</td>
<td>245-5813</td>
<td><a href="mailto:ftateishi@kauaiwater.org">ftateishi@kauaiwater.org</a></td>
</tr>
<tr>
<td>Hawaii Dept. of</td>
<td>Craig Shimabukuro</td>
<td>961-8050</td>
<td>961-8031</td>
<td><a href="mailto:cshimabukuro@hawaiidws.org">cshimabukuro@hawaiidws.org</a></td>
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<td>Water Supply</td>
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</table>

**USE OF PRICE LIST BY NONPROFIT ORGANIZATIONS.** Pursuant to HRS § 103D-804, nonprofit organizations with current purchase of service contract(s) (HRS, Chapter 103F) have been invited to participate in the State Procurement Office’s (SPO) VLs.

*If a nonprofit organization (hereinafter called “nonprofit”) wishes to purchase from a SPO VL, the nonprofit must obtain approval from each VL vendor, i.e., participation*
must be mutually agreed upon. A VL vendor may choose to deny participation by a nonprofit. However, if a nonprofit and VL vendor mutually agrees to this arrangement, it is understood that the nonprofit will retain its right to purchase from other than a VL vendor.

PRE-QUALIFIED Energy Service Company (ESCO):

Amersco/Pacific Energy JV
Chevron U.S.A. Inc.
Honeywell International Inc.
Johnson Controls Inc.
Noreesco LLC
Trane U.S. Inc.

BACKGROUND AND PURPOSE OF THE VENDOR LIST

A request for proposals was solicited to invite interested Energy Service Companies (ESCOs) to submit their qualifications-based information for consideration. The primary intent of the VL is:

1. To increase the number of successful energy savings performance contracts statewide, as a means to implement comprehensive energy-efficiency projects in existing State or County buildings that would otherwise be cost-prohibitive;
2. To provide participants (i.e. State agencies or County agencies) the opportunity to procure services of qualified ESCOs in a timely and cost-effective way;
3. To ensure minimum qualifications of ESCOs to implement successful energy savings performance contract (ESPC) projects; and
4. To offer all qualified ESCOs the opportunity of equal access to work generated by the participants (i.e. State agencies or County agencies).

Pre-qualified ESCO are eligible to participate in a secondary solicitation process (to be called “Invitation for Proposals”) by State or County agencies. A pre-qualified ESCO selected through the secondary solicitation process may enter into an Investment Grade Audit (IGA) contract which would be basis for a subsequent Guaranteed Energy Savings (GES) contract.

Energy savings performance contracting will enable Facility Owners to accomplish energy projects by primarily paying for Energy Savings Performance Contract (ESPC) projects through the Facility Owner’s cash flow that result from ESCO “guaranteed energy savings (GES)”.

Should the State determine that there is a need to solicit for additional pre-qualified ESCO, the State may re-solicit after the first year of the VL.

INSTRUCTIONS FOR USE OF THE VENDOR LIST
1. Pre-qualified ESCO are named on the VL. Pre-qualified ESCO information section (last pages of this VL) will indicate the particular types of facilities each ESCO has been pre-qualified for. Pre-qualified ESCO on the SPO vendor list may provide updated qualifications-based information annually.

2. Use of established SPO VL by State or county agencies will be optional. However, should State or County agencies use the established SPO VL, they will be required (to the extent possible) to solicit proposals with prices for a State or County agency scope of desired services (i.e. limited to the services identified in the Request for Proposals, RFP-08-022-SW) from a minimum of three pre-qualified ESCO or whatever is available on the established SPO VL.

3. Copies of the individual pre-approved ESCO responses to the RFP and the RFP will be available at the Department of Accounting and General Services, Public Works Division. Contact DAGS, Public Works Division at 586-0526 to sign out copies for use during the secondary process. Any other specific/additional information requested on the personnel who will be performing the specific services under an ESPC shall be provided upon request by the pre-approved ESCO. Information on prequalified ESCO Personnel may include (but not be limited to): education; experience; work history; professional certifications; and designations. State or County agency selection of a pre-qualified ESCO through use of the SPO Vendor List will be based on the pre-qualified ESCO’s Invitation for Proposal (IFB) which provides the State or County agency with the “best value.” Individual proposals include maximum audit costs, markups, and fees. See Section 3, 3.02 Proposal Submittal and Selection Process, C, (6.0) for Maximum Fees of the RFP for maximum allowable markups and fees.

VENDOR LIST PROJECT PHASES

1. General Solicitation Process
   
a. Facility Owner Secondary Solicitation Process Overview
   
i. Identify the facility/site
   ii. Prepare Invitation for Proposal (IFP) document
   iii. Distribute the IFP to qualified ESCOs and confirm their interest in the project. Disclose if a mandatory facility walk-through is required.
   iv. Arrange walk-through or inspection of a facility/site for the interested ESCOs as applicable
   v. ESCOs will then develop their proposals including the preliminary Technical Energy Assessment (TEA) and required cost information.
   vi. Receive the proposals from interested ESCOs.
   vii. Conduct the evaluation of the proposals which may involve reviewing or conducting:
       (a) Written Proposals
       (b) Client References
       (c) Oral Interviews
   viii. Select the highest-ranked ESCO
   ix. Contract with the ESCO to conduct the Investment Grade Audit (IGA)
x. Review the IGA results, negotiate with the ESCO, as necessary, and either approve the proposed projects, or disapprove the project and settle payment of the IGA cost with ESCO.

xi. If the project is approved, negotiate and execute an energy savings performance contract and any other necessary agreements or contracts.

xii. Construction begins (ESCO performs construction management)

xiii. All construction completed (i.e. substantial completion), including equipment/systems, and commissioning

xiv. Guaranteed savings period begins

xv. Project maintenance; measurement and verification; facility personnel training

xvi. Ongoing performance monitoring

b. Distribution of the IFP document shall be to all qualified ESCOs within the particular market sector(s) related to the Facility Owner’s requirements.

c. Optional. The Facility Owner process to create a shorter and more manageable ESCO list from the vendor list to be as follows:

i. A selection committee comprised mainly of Facility Owner staff will select three (3) or more pre-qualified ESCO on the established SPO VL using the following general process:
   (1) Review the 5-page overview of each currently eligible ESCO from the ESCO’s response to RFP-08-022-SW.
   (2) Consider the ESCO’s involvement in the particular market sector or similar sector that is related to the type of facility/project being considered.
   (3) Consider the size of facility/project being considered.
   (4) Review of information provided in ESCO’s response to RFP-08-022-SW.
   (5) Other factors of importance to be determined by the Facility Owner.

ii. The Facility Owner shall document the basis for selecting ESCOs receiving an IFP.

iii. If an ESCO declines this invitation, it is not necessary to identify another ESCO to take its place.

d. The Invitation for Proposal document to be provided to prospective ESCOs should include the following at the minimum:

i. Technical scope of the project (may include information on the facility/project, energy goals, improvement projects completed and proposed, utility data, etc.);

ii. Selection process and evaluation criteria;

iii. Project schedule; and

iv. Special project terms and conditions
   1. Technical
   2. Contractual
2. **The ESCO proposal**, developed at no cost to the Facility Owner, should contain at the minimum the following:
   a. Technical energy assessment (TEA) with possible “energy conservation measure (ECM)” improvements that provide guaranteed energy savings;
   b. Preliminary construction budget with estimated energy savings that need to stay within 20% of any subsequent ESCO guaranteed energy savings (GES) proposal with the exception for unforeseen conditions as negotiated with the Facility Owner;
   c. The ESCO team for the Facility Owner’s specific facility/project;
   d. Fee to complete an investment grade audit (IGA) with project development proposals on proposed ESPC projects that have ECM improvements with guaranteed energy savings (GES);
   e. If innovative or exotic technologies are being proposed by the ESCO, information should be provided on previous installations on similar projects, including cost and performance results, and the ESCO’s current availability of resident expertise or demonstrated consultant relationships established (e.g., expertise and experience on installation and operation of a biomass boiler to gasify wood chips, water flush control devices for correctional facilities, etc.) to implement the technology.

2. **Proposal evaluation** should be done by a selection committee comprised mainly of Facility Owner staff to review and evaluate the ESCO proposals received and select one (1) ESCO to do an investment grade audit (IGA) with project development proposals. Facility Owner will then execute an IGA contract with the selected ESCO.

3. The **evaluation criteria** used by the selection committee, which may be modified by the Facility Owner as necessary, should generally include:

   **Qualifications and Project Experience**
   - Qualifications and experience of ESCO’s personnel with guaranteed energy savings contracts on projects similar to the Facility Owner’s project.
   - Reliability of equipment performance on past projects.
   - Documented energy savings on past projects similar to the Facility Owner’s project.
   - Quality and completeness of past project documentation.

   **Project Management**
   - Clear assignment of responsibility for various project tasks to specific individuals.
   - Ability to effectively manage project construction and complete the project on schedule and within budget.
   - Quality of approach to operations and maintenance.
   - Quality of monitoring, maintenance, measurement and verification services, and reporting on past projects.
• Clarity, organization, and level of detail in written proposal.
• Quality of communication skills of the ESCO’s representatives at the oral interview.

Technical Approach
• Quality of technical approach, including methods of analysis and understanding of existing building systems and conditions, documentation for measures installed.
• Quality of approach to project commissioning.
• Quality of sample investment grade audit for project similar to the Facility Owner’s project.
• Quality of baseline energy calculations and methodology for handling modifications/changes to the baseline.
• Quality of proposed training for facility staff.
• Quality of approach to savings measurement and verification.
• Quality of sample documentation.
• Quality of customer savings reports for similar clients to the Facility Owner.
• Quality of preliminary technical approach based on the technical energy assessment developed after the facility walk-through.

Financial Stability
• Financial soundness and stability of ESCO.
• Demonstrated ability to provide or arrange project financing.
• Reasonableness of investment grade audit costs. For example, is it reasonable when compared with industry standards (i.e., Are the costs high or low?).
• Reasonableness of Preliminary Cash Flow Analysis.
• Quality and cost of the financial guarantee of savings. For example, this may relate to the ratio of annual cost to annual savings. A ratio of 95% would allow a 5% margin of uncertainty. Another item might be the cost of their annual guarantee of savings compared to the annual savings (e.g., annual cost of M&V and O&M compared to annual savings). A ratio of 5% may be more reasonable than a ratio of 40% of the annual savings.

Other
• Facility Owner may require additional criteria unique to its own facility/project requirements and situation.

5. The Investment Grade Audit (IGA) contract is intended to be handled as follows:

a. Executed IGA contract will authorize the selected pre-qualified ESCO to complete an IGA with project development proposals on (ECM) improvements, construction budget estimate for proposed ECM improvements proposed ESCO (GES) which the Facility Owner may use to secure ESPC project funding from a third party financial institution.
b. The final IGA will set specific expectations and provide a detailed process for both the selected pre-qualified ESCO and the Facility Owner. The final IGA will also define:

- The deliverables to the Facility Owner;
- Identify and evaluate cost-saving measures and define the proposed ESPC project scope;
- Cost;
- Cash-flow savings
- Cash-flow model over the proposed GES financing duration;
- Be the basis for an ESPC project that will present aggregated measures which can be financed through ESCO (GES);
- Will incorporate applicable State laws that directly impact implementation of energy saving performance contracting services for the Facility Owner;
- Bond and insurance requirements.

c. Facility Owner shall have no payment obligations to the selected pre-qualified ESCO for the final IGA with project development proposals that is conducted under the executed IGA contract if:

i. Facility Owner and selected pre-qualified ESCO shall execute a GES contract for an ESPC project after the Facility Owner issues a “Notice of Acceptance Letter” and the ESCO proposal for Facility Owner approved ECM improvements can be incorporated at no “up-front cost” to the Facility Owner into a GES contract (in accordance with a standardized State contract template for a GES contract) for an approved ESPC project; or

ii. Selected pre-qualified ESCO determines at any time during the IGA that the GES needed to meet the Facility Owner energy saving goals or terms and conditions cannot be attained and the IGA is terminated by written notice from the selected pre-qualified ESCO to the Facility Owner; or

iii. Final IGA with project development proposals do not contain a package of “energy savings” which, if implemented, will provide the Facility Owner with cash flow savings sufficient to fund Facility Owner with payments for all costs and fees associated with the proposed ESPC project, which includes but is not limited to:

- the fee associated with completion of the final IGA;
- all monthly payments on a lease purchase agreement to finance the proposed ECM improvements;
- any annual fees for monitoring and maintenance incurred by the selected pre-qualified ESCO; and
- NOTE: Analysis is to be based on proposed financing terms, including a conventional, fully amortized lease-purchase
agreement not to exceed the GES duration over a fixed rate or interest actually available to the Facility Owner.

IMPLEMENTATION OF APPROVED ENERGY SAVINGS PERFORMANCE CONTRACT (ESPC) PROJECT

1. Upon satisfactory completion of the (IGA), the Facility Owner has the option to implement an energy saving performance contract (ESPC) project that is based on ESCO guaranteed energy savings (GES) for approved energy conservation measure (ECM) improvements by the selected/pre-qualified ESCO that is conducted under a GES contract. It is intended that the executed GES contract will define:
   - The final agreed upon scope of work with all associated costs;
   - Mutual responsibilities for the selected/pre-qualified ESCO and the Facility Owner, as well as approved (ECM) improvements;
   - The equipment and labor accosts associated with them;
   - All (GES); and
   - Maintenance cost savings.

At a minimum, the executed GES contract will also incorporate applicable State laws that directly impact energy saving performance contracting services for State or County agencies, including bond and insurance requirements.

2. It is also intended that a separate State financing agreement will be executed to address payment schedules for “design-build” construction work by the selected pre-qualified ESCO and payment schedules for third party financial institutions (if needed) from the “cash flow model” based on ESCO GES.

3. After execution of a GES contract for an approved ESPC project, it is intended the selected pre-qualified ESCO will proceed to final design, construction, and commissioning of approved ECM improvements.

(GES) PERFORMANCE DURATION PERIOD

1. It is anticipated the duration period of executed GES contracts with the selected pre-qualified ESCO will begin upon substantial completion of completed ECM improvements by the selected pre-qualified ESCO.

2. It is also anticipated over the duration of the GES contract, the selected pre-qualified ESCO will still be responsible for providing a number of services until the end of the GES contract, such as but not limited to:
   - Measurement and verification of energy savings persistence;
   - ESCO payments for the guaranteed energy savings;
   - Facility Owner staff training;
   - Reporting as required by the Facility Owner; and
   - Possibly, contract maintenance services.

CERTIFICATE OF LIABILITY INSURANCE
Requirements for submission of proposals for the Energy Performance Services:

1. The Offeror shall maintain in full force and effect during the life of this contract, liability and property damage insurance to protect the Contractor and his subcontractors, if any, from claims for damages for personal injury, accidental death and property damage which may arise from operations under this contract, whether such operations be by himself or by a subcontractor or anyone directly or indirectly employed by either of them. If any subcontractor is involved in the performance of the contract, the insurance policy or policies shall name the subcontractor as additional insured.

2. As an alternative to the Offeror providing insurance to cover operations performed by a subcontractor and naming the subcontractor as additional insured, Contractor may require subcontractor to provide its own insurance, which meets the requirements herein. It is understood that a subcontractor's insurance policy or policies are in addition to the Contractor's own policy or policies.

3. The following minimum insurance coverage(s) and limit(s) shall be provided by the Contractor, including its subcontractor(s) where appropriate:

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<tr>
<th>Coverage</th>
<th>Limits</th>
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<tr>
<td>Commercial General Liability</td>
<td>$1,000,000 per occurrence/</td>
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<tr>
<td>Including Completed Operations</td>
<td>$2,000,000 aggregate</td>
</tr>
<tr>
<td>Automobile Liability</td>
<td>$1,000,000 per accident</td>
</tr>
<tr>
<td>Professional Liability</td>
<td>$1,000,000 per occurrence/</td>
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<td>$2,000,000 aggregate</td>
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</table>

Each insurance policy required by this contract, including a subcontractor's policy, shall contain the following clauses:

1. "This insurance shall not be canceled, limited in scope of coverage or non-renewed until after 30 days written notice has been given to the State of Hawaii, Department of Accounting and General Services, State Procurement Office, P. O. Box 119, Honolulu, Hawaii 96810-0119."

2. "The State of Hawaii is added as an additional insured as respects to operations performed for the State of Hawaii." (Not applicable to Professional Liability insurance.)

3. "It is agreed that any insurance maintained by the State of Hawaii will apply in excess of, and not contribute with, insurance provided by this policy."
The minimum insurance required shall be in full compliance with the Hawaii Insurance Code throughout the entire term of the contract, including supplemental agreements.

Self-insured programs and claims-made policies may be substituted for the above insurance requirements.

4. Upon Offeror's execution of a contract for an ESPC Project, the Offeror agrees to deposit with the State of Hawaii certificate(s) of insurance necessary to satisfy the State that the insurance provisions of the contract has been complied with and to keep such insurance in effect and the certificate(s) therefore on deposit with the State during the entire term of construction phase work for the contract, including those of its subcontractor(s), where appropriate. Upon request by the State, Contractor shall be responsible for furnishing a copy of the policy or policies. *(I can’t this to change to Item No. 4 and the rest to follow)*

5. Failure of the pre-qualified ESCO to provide and keep in force such insurance shall be regarded as material default under this contract, entitling the State to exercise any or all of the remedies provided in this contract for a default of the pre-qualified ESCO.

6. The procuring of such required insurance shall not be construed to limit prequalified ESCO's liability hereunder nor to fulfill the indemnification provisions and requirements of this contract. Notwithstanding said policy or policies of insurance, pre-qualified ESCO shall be obliged for the full and total amount of any damage, injury, or loss caused by negligence or neglect connected with this contract.

**VENDOR AND PRODUCT EVALUATION** form, SPO-12, is made available to the agencies for the purpose of addressing concerns on this price list. The form can be accessed from the SPO website: www.spo.hawaii.gov. Click on 'Forms for State Agencies' under the “Quick Links” section of the homepage.

**PRICE LIST AVAILABLE ON THE INTERNET** at the SPO website: http://hawaii.gov.spo. Click on ‘SPO Price List/Vendor List Contracts’ at the main menu.

Aaron S. Fujioka
Administrator
PRE-QUALIFIED ESCO INFORMATION
AMERSCO/PACIFIC ENERGY, JV

Local Contact Information:
Contact Name: Steve Olsen
Address: 94-1093 Hanauna Street
Waipahu, HI 96797
Phone: 677-9800
e-mail: solsen@pacific-energy.com

Payment Address: 111 Speen Street, Suite 410
Framingham, MA 01701

Pre-qualified Market Sectors:

School Districts – small (1-5 schools) or rural over 2 hours from major metropolitan area
School Districts – large
Higher Education Facilities – Universities and major colleges
Higher Education Facilities – Community colleges and small/rural colleges
Cities/Counties - large
Cities/Counties- small
Medical/Hospital Facilities
State Department of Defense/Military Facilities
Correctional Facilities
Transportation Facilities (airport, harbor, highways, parking structure)
Sport Complexes, Stadiums, Arenas, etc.
Other Government Entities – recreation centers, libraries districts, data/communication center, etc.
Multifamily Buildings – highrise or large buildings
Multifamily Buildings – smaller scale multi-plex buildings
Multifamily Buildings – mix of building types
Community-Wide Efforts – multiple entities in partnership or other example
Judicial Facilities
CHEVRON ENERGY SOLUTIONS COMPANY, 
a division of Chevron, U.S.A. Inc.

Local Contact Information:  
Contact Name: Brian Kealoha  
Address: 933 North Nimitz Hwy.  
Honolulu, HI 96817  
Phone: 225-8039  
E-mail: BKealoha@chevron.com  
Payment Address: 345 California Street, 18th Floor  
San Francisco, CA 94104  

Pre-qualified Market Sectors:  

School Districts – small (1-5 schools) or rural over 2 hours from major metropolitan area  
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Multifamily Buildings – mix of building types  
Community-Wide Efforts – multiple entities in partnership or other example  
Judicial Facilities
HONEYWELL INTERNATIONAL, INC.

Business Address: 250 Ward Avenue, S-100
Honolulu, HI 96814

Contact: Christine DeTommaso
Phone: (808) 591-6705
Fax: (808) 591-6721
e-mail: Christine.detommaso@honeywell.com

Payment Address: Building Solutions
12490 Collections Center Drive
Chicago, IL 60693

Pre-qualified Market Sectors:

School Districts – small (1-5 schools) or rural over 2 hours from major metropolitan area
School Districts – large
Higher Education Facilities – Universities and major colleges
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Multifamily Buildings – mix of building types
Community-Wide Efforts – multiple entities in partnership or other example
Judicial Facilities
JOHNSON CONTROLS INC.

Business Address: 677 Ala Moana Boulevard
Honolulu, HI 96813

Contact: Michael Trovato
Phone: (916) 996-9920
e-mail: Michael.Trovato@jci.com

Payment Address: PO Box 730068
Dallas, TX 75373

Pre-qualified Market Sectors:

School Districts – small (1-5 schools) or rural over 2 hours from major metropolitan area
School Districts – large
Higher Education Facilities – Universities and major colleges
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Multifamily Buildings – mix of building types
Community-Wide Efforts – multiple entities in partnership or other example
Judicial Facilities
NORESCO LLC

Business Address: 3375 Koapaka Street, Suite F220-26
Honolulu, HI 96819

Contact: Jay Johnson
Phone: (808) 833-7777 ext. 2601
Cell: (602) 418-2064
e-mail: jjohnson@noresco.com

Payment Address: 4 Penn Center West, Suite 220
Pittsburgh, PA 15276

Pre-qualified Market Sectors:

School Districts – small (1-5 schools) or rural over 2 hours from major metropolitan area
School Districts – large
Higher Education Facilities – Universities and major colleges
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Multifamily Buildings – mix of building types
Community-Wide Efforts – multiple entities in partnership or other example
Judicial Facilities
TRANE INC.

Business Address: 330 Sand Island Access Road #103
Honolulu, HI 96819

Remit to: File 56718
Los Angeles, CA 90074-6718

Contact: Rick Schnarr, General Sales Manager
Phone: (808) 845-6662 x252
Fax No.: (808) 845-2168
e-mail: rischnarr@trane.com

Pre-qualified Market Sectors:

School Districts – small (1-5 schools) or rural over 2 hours from major metropolitan area
School Districts – large
Higher Education Facilities – Community colleges and small/rural colleges
Cities/Counties - large
Cities/Counties- small
Medical/Hospital Facilities
State Department of Defense/Military Facilities
Other Government Entities – recreation centers, libraries districts, data/communication center, etc.
APPENDIX D

TECHNICAL FACILITY PROFILE

SECTION I: GENERAL FACILITY DATA

Please use additional pages as required.

1. Name of Building _______________________________________________________
2. Address of Building_____________________________________________________
3. Primary Use ___________________________________________________________
4. Building Engineer __________________________ Ph: ________________________

SECTION II: OPERATING DATA

1. Please describe the manufacturer(s), age, type and condition of the HVAC control system(s) used in the building(s).

2. If you have an operating Energy Management System (EMS) controlling your building, please list the manufacturer, year installed and operating conditions.

SECTION III: PHYSICAL DATA

1. ______ Gross floor area (SF)
2. ______ Weekly operating hours
3. ______ # of workers on main shift
4. ______ # of personal computers
5. ______ Percent of floor area that is air conditioned (>=50%, <50%, or none)
6. ______ Percent of floor area that is heated (>50%, <50%, or none)

SECTION IV: ENERGY SYSTEMS DATA

Please provide as much of the following information as is available.

1. Briefly describe the major type(s) of HVAC system(s) serving your building (i.e.; terminal reheat, multizone, variable air volume, etc.) Indicate the main fuels used to operate the
heating and cooling systems.

2. Estimate the percentage of total area lighted by fluorescent ballasts and bulbs, and incandescent bulbs. Estimate the approximate annual hours of operation for each type of lighting. If you have a significant amount of HID lighting, please describe it in similar terms. Indicate the percentage of fluorescent lighting, if any, which has been upgraded to electronic ballasts and T-8 lamps. Describe the age of existing fixture and ballast systems for each lighting type.

SECTION V: IMPROVEMENT OPPORTUNITIES

1. Briefly describe any serious equipment, operating, or comfort problems in your building(s). Identify any major mechanical, control or electrical systems scheduled for replacement during the next five years.

2. Briefly list any major energy conservation options identified by a previous analysis of your building.

SECTION VI: ENERGY AND WATER CONSUMPTION DATA

Please summarize utility consumption and costs for all fuel types, including water, over the last three (3) years for each project site using the forms that follow. If you are buying contract gas, give your monthly price history, if available, on a separate sheet for your cost of gas. Please attach copies of all utility rate schedules that apply to your building.

ELECTRIC CONSUMPTION

Name of Facility: _________________________ Type of Fuel: ___________________________
Location: _______________________________ Name of Utility: _________________________

<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th>Demand KW</th>
<th># of KWH</th>
<th>Total Cost</th>
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<th># of KWH</th>
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</table>
### SYNTHETIC NATURAL GAS

**Name of Facility:** _________________________  
**Location:** _______________________________  
**Name of Utility:** __________________________  

<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th>Demand KW</th>
<th># of KWH</th>
<th>Total Cost</th>
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<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th># of Therms</th>
<th># of CCF</th>
<th>Total Cost</th>
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HAWAII GUIDE TO ENERGY PERFORMANCE CONTRACTING – 2011 REVISION: APPENDIX A  
PAGE A-25
### Heating

<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th># of Therms</th>
<th># of CCF</th>
<th>Total Cost</th>
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**WATER**

Name of Facility: _________________________

Location:  _______________________________

Name of Utility: __________________________

### Water

<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th># Gallons</th>
<th>Sewage Charges</th>
<th>Total Cost</th>
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### Sewage

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<th>Billing Month/Yr.</th>
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<th>Sewage Charges</th>
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HAWAII GUIDE TO ENERGY PERFORMANCE CONTRACTING – 2011 REVISION: APPENDIX A
PAGE A-26
### Monthly Fuel Usage:

<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th># Gallons</th>
<th>Sewage Charges</th>
<th>Total Cost</th>
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### Other Charges:

Name of Facility: _________________________

Location: _______________________________

Type of Fuel: ___________________________

Name of Utility: _________________________

<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th># of Units (Specify)</th>
<th>Other charges (if applicable)</th>
<th>Total Cost</th>
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<td><strong>TOTALS</strong></td>
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</table>
SITE BASELINE DATA COLLECTION

Please provide as much of the following information as is available.

1. What is your current annual maintenance budget? $____________________

2. What is the total square footage managed with that budget? _______________

3. What is your current maintenance budget for internal staff (salaries and benefits)? $_________________

4. What is your annual budget for external maintenance contracts? $___________

5. What is the average number of square feet managed per maintenance staff person? ________________

6. What is your current estimate of deferred maintenance in total dollars and dollars per square foot? $_______ $/sf__________

7. What is your current capital budget allocation as a percentage of your total capital budget requests? _______%

8. What is the total annual number of facility maintenance complaints? ________
9. What is the total number of occupants in the building? _______________
   What is the average number of square feet of building space per building occupant?
   ______________

10. What is the average number of annual sick days per worker? ______________

11. What is the annual number of voluntary worker resignations? ______________

12. Please estimate the percentage of your annual maintenance budget that is spent on corrective or reactive maintenance. $_______________
   Please estimate the percentage of your annual maintenance budget that is spent, on preventative, predictive, or proactive maintenance. $_____________

13. Can you identify any specific building system that has a potentially large negative impact on employee health, productivity or morale? ___ Yes ___ No
   If yes, what is that building system?

14. Do you currently track indoor air comfort and air quality complaints? ___ Yes ___ No

15. Do you survey building occupants annually as to IAQ, comfort, and lighting? ___ Yes ___ No
## APPENDIX E: ENERGY EQUIPMENT AND SERVICES LIST

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<th>Energy Conservation Measure</th>
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<td>Proper scheduling of lighting and HVAC</td>
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<td>Proper sequence of operations for heating and cooling</td>
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<td>Review control strategies</td>
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<td>Proper air and water-side economizer operation</td>
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<td>Supply and return fan interlock</td>
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<td>Optimize start time for air handlers &amp; stop time for heating/cooling systems</td>
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<td>Soft start centrifugal chillers using current limiting</td>
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<td>Control economizer minimum position and makeup air handler air volumes based on input from new CO₂ sensors</td>
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<td>Control airside economizers based on comparative energy content of outside air and return air</td>
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<td>Test calibration and adjustment of flow and pressure sensors and setpoints for all variable volume fans and pumping systems</td>
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<td>Test, calibration and adjustment of temperature sensors and control valves</td>
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<td>Demand limiting</td>
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<td>Control calibration</td>
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<td>Economizer control for free cooling</td>
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<td>Self-tuning control loops</td>
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<td>Temperature resets on fan coil, cold deck and hot deck</td>
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<td>Proper pump sequencing</td>
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<td>Direct coupled network control based on demand for cooling</td>
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<td>Parking garage control</td>
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### Energy Conservation Measure

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<td><strong>COOLING</strong></td>
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<td>Pitch the cooling tower blades to the maximum angle consistent with the motor-plate amperage requirements</td>
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<td>Install velocity regain (VR) fan cylinders – will generate approximately 7 percent more air flow because they relieve the exit pressure which the fan works against</td>
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<td>Remove splash deck on cooling tower and replace with efficient redistribution decks or target orifice nozzles</td>
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<td>Existing spray systems in counterflow cooling towers are greatly improved by installing non-corroding polyvinylchloride (PVC) piping in conjunction with non-clogging, non-corroding square-spray ABS plastic nozzles</td>
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<td>Change to high-efficiency, dense-film fill (cellular fill) to increase capacity of existing tower</td>
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<td>Chiller staging</td>
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<td>Operate at the highest possible evaporator temperature and pressure</td>
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<td>Cooling tower optimization</td>
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<td>Pre-cooling</td>
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<td>Filter chiller water</td>
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<td>Upgrade cooling tower (parabolic stack, high CFM blades, temperature controls)</td>
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<td>Refrigerant charge adjustment</td>
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<tr>
<td>Chiller staging/modulation (soft start, variable soft load, reset of supply/return water, demand reduction on start of 2nd chiller)</td>
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<td>Clean heat exchangers</td>
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<td>Central/satellite chillers</td>
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<td>Variable speed chiller retrofit</td>
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<td>Chemical-less condenser water treatment</td>
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<td>Energy efficient boilers</td>
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<td>Low leakage dampers</td>
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<td>Duct leakage repair</td>
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<td>Low friction ducts</td>
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<td>Downsize cooling equipment</td>
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<td>Starter upgrade</td>
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<td>Variable air volume with VFD</td>
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<td>Variable volume pumping</td>
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<td>Proper sizing of equipment to eliminate short cycling</td>
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<td>Clean/replace coils</td>
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<td>Air balancing</td>
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**LIGHTING**

| LED lighting                 |           |           |           |           |           |           |           |           |
| 25 watt T-8 lamps           |           |           |           |           |           |           |           |           |
| Occupancy sensors/daylighting controls | | | | | | | | |
| Dimmable electronic ballasts |           |           |           |           |           |           |           |           |
| Tandem wiring of high efficiency ballasts | | | | | | | | |
| High efficiency metal halide fixtures | | | | | | | | |
| Control light distributions  |           |           |           |           |           |           |           |           |
| Task lighting               |           |           |           |           |           |           |           |           |
| Bi-level Switching          |           |           |           |           |           |           |           |           |

**PLUG LOAD**

| Minimization of plug-load from office equipment | | | | | | | | |

**ENVELOPE**

| Heat reflective window film | | | | | | | | |
| Reflective roof coating     | | | | | | | | |

**WATER HEATING**

| Load control of electric water heaters | | | | | | | | |
| Low-flow water equipment        | | | | | | | | |
| Fuel conversion (electric to gas) | | | | | | | | |

**MOTORS**

| High PF of new motors         | | | | | | | | |
| Motor downsizing              | | | | | | | | |
| Motor slip spec (keep speed low when at part load) | | | | | | | | |
| High efficiency motors        | | | | | | | | |

**MISCELLANEOUS**

| Data center efficiency improvements | | | | | | | | |
| Education/training               | | | | | | | | |
| Fleet management                 | | | | | | | | |
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### RENEWABLE

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<td>Urban wind</td>
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**DISCLAIMER:**

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Inquiries, comments and suggestions may be referred to Strategic Industries Division, Attention: E. Raman, P.O. Box 2859, Honolulu, HI 96804 or (808) 587-3806.
APPENDIX F

STATE OF HAWAII

STANDARD INVITATION FOR PROPOSALS (IFP)

ENERGY SAVINGS PERFORMANCE
CONTRACTING, STATEWIDE FACILITIES

PROJECT NO. __________
(INSERT NAME OF AGENCY)

STATE OF HAWAII

INVITATION FOR PROPOSALS

FOR ENERGY SAVINGS PERFORMANCE CONTRACTING

(INSERT PROJECT NAME)

PROJECT NO.

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<td>ATTACHMENT A-1 – ESCO’S PRELIMINARY TECHNICAL PROPOSAL</td>
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<td>ATTACHMENT B – ESCO’S PRELIMINARY COST PROPOSAL</td>
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<td>Attachment C- PROJECT SITE(s)</td>
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<td>ATTACHMENT D - TECHNICAL FACILITY PROFILES</td>
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</table>
I-1. PURPOSE. This Invitation For Proposals (IFP) contains the information and requirements for Energy Service Companies (ESCOs) from the DAGS-State Procurement Office (SPO) vendor list (RFP No. RFP-08-022-SW, Energy Savings Performance Contracting Services) of “pre-qualified ESCOs” to prepare and submit to_______________________, State of Hawaii (hereinafter referred to as “Owner”) a Preliminary Technical Proposal for an energy savings performance contract (ESPC) project at the facilities identified in Attachment C (hereinafter referred to as “Project Site”). This IFP, with any amendments, contains the only instructions governing the proposals and material to be included therein; a description of the service to be provided; general evaluation criteria; and other proposal requirements. This IFP is to be used in conjunction with the DAGS-SPO vendor list for “pre-qualified ESCOs” and vendor list instructions.

I-2. AUTHORITY. This Invitation for Proposals (IFP) is subject to the provisions and requirements of SPO vendor list RFP No. RFP-08-022-SW - Energy Savings Performance Contracting Services, Hawaii Revised Statutes (HRS) 36-41, HRS196 and any other applicable Federal, State or County law, rule or regulation. Submission of a valid executed proposal by any ESCO shall comply with the requirements above and the terms and conditions of this IFP.

Any agreement arising out of this IFP is subject to the approval of the State Department of the Attorney General as to form, and as required by statute, regulation, rule, order, or other directive.

I-3. ISSUING OFFICE. This IFP is issued for Owner by the Issuing Office listed below and is the sole point of contact for this IFP.

NAME: ____________________________________________
POSITION: ____________________________________________
ADDRESS: ____________________________________________
EMAIL: ____________________________________________

Questions and requests for clarification on this Invitation for Proposals must be submitted in writing by the dates indicated in Part III, Project Schedule. Responses to all written inquiries will be answered by addendums.

No verbal inquiries will be addressed. In the event it becomes necessary to revise any part of this IFP, an addendum will be issued. Only written modifications will be legally binding. No employee or agent of the Owner may verbally alter the contents of this IFP.

Communication with other officials of the Owner, the Selection Committee, or others associated with the project with regard to this IFP is prohibited.

I-4 RESPONSE DATE. To be considered, proposals must be received by _________ am/pm (insert time), on __________ (insert date), at____________ (insert location) on the
date designated in Proposals delivered after that time will not be considered. Late or incomplete proposals will not be accepted regardless of the reason.
Submit To: (Insert name and address)

I-5. GOAL. The Owner’s overall goals are:

- To increase energy efficiency and building performance with the goal of reducing energy usage and demand;
- Reduce facilities life cycle costs including: maintenance, equipment replacement, energy and water utilities, waste disposal, emergency power outages, etc.;
- To improve indoor environmental quality for occupants; and
- To address deferred repair and maintenance projects.

Owner is interested in contracting one (1) ESCO for a full range of energy services and energy-related capital improvements ("energy conservation measures" or "ECMs"), financed through an ESPC project with Owner at the Project Sites. The ECMs and services may include but are not limited to an investment grade audit; the design, acquisition, installation, modification, maintenance and operation of existing and new equipment; and the training of Owner’s personnel. These improvements are intended to reduce energy consumption and related costs associated with the heating, ventilation and air conditioning systems; lighting systems; building envelope; the hot water systems; water consumption; sewage costs; and other energy using devices. The ECMs and services will also look for savings which may not reduce consumption but are aimed at cost savings such as fuel switching; demand reductions; on-site generation; electrical submetering; and automated utility bill auditing, utility rate changes and distribution upgrades. ECMs must result in a guaranteed minimum energy savings with the ESCO payments linked to actual documented energy and cost reductions. Any stipulated energy and/or operational cost savings that may be attributed to this project will be rigorously reviewed and, if agreed to, will be limited to those that can be thoroughly documented and verified by the ESCO and approved by Owner. Reductions in operations and maintenance costs will require the definition and quantification of baseline costs from documented operations and maintenance cost records.

The savings achieved by the ECMs must be sufficient to cover all project costs including service maintenance costs and monitoring fees on an annual basis for the duration of the contract term. The contract must provide that the savings in any year are guaranteed to the extent necessary to make payments under the contract during that year. ESCOs will be required to guarantee energy and cost savings on an annual basis. No credit for the achievement of savings above and beyond the annual guarantee will be credited to satisfy performance guarantees in future years of the contract. Annual reconciliation of the achieved savings will be required.

I-6. DESCRIPTION OF THE PROCUREMENT PROCESS. To achieve this goal Owner will evaluate proposals according to the following process:
1.) **SUBMISSION OF WRITTEN PROPOSAL.** Interested ESCOs will participate in the mandatory walk-throughs of all project buildings and must submit their proposals (All Attachments listed in Part II) by the required deadline. Owner, through its designated representatives on the Evaluation Committee, will review and evaluate the proposals in response to this IFP based on the evaluation criteria identified in Part IV, Evaluation Criteria for IFP.

2.) **ORAL INTERVIEW.** ESCOs will be required to participate in an oral interview. The purpose of this session is to allow the ESCO to explain its proposal in more detail and for the Owner to ask clarifying questions. Oral interview answers will be graded as part of the Part IV, Evaluation Criteria for IFP overall grading.

3.) **SELECTION OF ESCO TO DEVELOP THE PROJECT.** Owner will select the best qualified ESCO to negotiate an Investment Grade Audit (IGA) for the Project Site that will result in a set of ECMs. The IGA will include:

1. An executive summary
2. Measures evaluated but not recommended
3. Proposed project or measure specific baselines
4. ECM descriptions
   a. Existing conditions
   b. Existing deficiencies
   c. Narrative description of proposed improvements
   d. Scope of work
   e. Equipment manufacturer or type
   f. Energy savings calculations
   g. Commissioning procedure
   h. Environmental impacts
   i. Training required
   j. Operation and maintenance cost savings calculations, if any
5. IGA shall also include the following schedules
   a. Equipment to be installed by ESCO
   b. Description of premises: pre-existing equipment inventory
   c. Energy saving guarantee
   d. Compensation to ESCO
   e. Baseline energy consumption and utility rates
   f. Savings measurement & calculation formulae: methodology to adjust baseline
   g. Construction and installation schedule
   h. Systems start-up and commissioning
   i. Standards of comfort
   j. ESCO’s maintenance responsibilities
   k. Agency’s maintenance responsibilities
   l. Facility maintenance checklist
   m. ESCO’s training responsibilities
   n. Financing schedule
   o. Proposed final project cost & proposed final project cash flow analysis
   p. Estimated pre- and post-retrofit Energy Star ratings for facilities
q. Proof of performance and payment bonding capability
r. Equipment warranties

4.) INVESTMENT GRADE AUDIT AGREEMENT. If Owner decides to proceed with the IGA, Owner will execute a consultant services agreement with the selected ESCO.

5.) ENERGY SAVINGS PERFORMANCE CONTRACT. Owner shall have the option to negotiate an energy savings performance contract (ESPC) with the selected ESCO that performed the IGA. If Owner decides not to enter into an ESPC with the selected ESCO after the IGA has been accepted, Owner agrees to pay the fee indicated for the completed IGA report as set forth in the executed consultant services agreement.

I-7. REJECTION OF PROPOSALS. Owner reserves the right to reject at any time any and all proposals received (in accordance with the DAGS-SPO Vendor List instructions).

I-8. INCURRING COSTS. Owner is not liable for any cost or expenses incurred by ESCOs in the preparation of the proposal, for performing any analysis, or for attendance at any conferences and meetings related to this IFP.

I-9. PRE-PROPOSAL CONFERENCE. The pre-proposal conference is mandatory and will be held prior to the facility walk-throughs.

I-10. CONFIDENTIALITY. The contents of any Proposal shall not be disclosed to parties other than the Owner or its evaluation consultants during the review, evaluation, discussion, or negotiation process. Once a contract is executed with the successful proposer, all Proposals, successful and unsuccessful, become available for public inspection.

A Proposal may contain financial information, legitimate trade secrets or other proprietary data which the Proposer may consider to be confidential. If the Proposer desires such trade secrets or proprietary data to be held in confidence by Owner the Proposer shall specifically designate and identify the portion(s) of the Proposal which the Proposer desires to be held in confidence and the reason such portion should be held in confidence. The Owner will consider the Proposer’s designation and the basis for such a designation request. If the Owner disagrees with the Proposer’s designation or the basis thereof, the Owner will so inform the Proposer. Any dispute between the Proposer and the Owner over such designation or the basis thereof will be resolved in accordance with the applicable statutes and rules, including Chapter 103D, HRS and its rules and regulations, and the Uniform Information Practices Act, Chapter 92F, HRS. The portion of the Proposal which the Proposer designates as confidential shall be readily separable from the Proposal in order to facilitate eventual public inspection of the non-confidential portion of the Proposal. The total contract price is not considered confidential and will not be withheld from public inspection.

Proprietary information, such as all copyrighted material, trade secrets or other proprietary information, that Proposers claim should be held in confidence by the Owner, should be separately bound and labeled with the words "Proprietary Information", see §3-122-58, HAR. Appropriate references to this separately bound information must be made in the body of the Proposal. Designating all or nearly all the
Proposal as proprietary may result in the rejection of the Proposal. The STATE may also reject any Proposal containing designated proprietary information the STATE believes it cannot fairly evaluate.

In the event a Proposer claims that any portion of the Proposal should be held in confidence by the Owner, the Proposer is required to state in the Proposal that:

"The Proposer shall indemnify, defend and hold harmless the STATE from and against any and all claims, demands, suits, actions, causes of action, judgments, liabilities, losses, damages, costs and expenses (including reasonable attorney’s fees and litigation costs) arising from or related to the STATE’s refusal to disclose copyrighted material, trade secrets or other information claimed to be proprietary by the Proposer to any person making a request therefore."

Failure to include such a statement in its Proposal shall constitute a waiver of any right the Proposer may have to prevent the STATE from disclosing information deemed proprietary by the Proposer.

The STATE reserves the right to make use of any and all information or ideas contained in the Project Proposals.

I-11. RESTRICTION OF CONTACT. From the issue date of this IFP until a determination is made regarding the final selection of one ESCO, all contacts with Owner’s personnel concerning this IFP, must be made only through the Issuing Officer.

I-12. NEWS RELEASES. News releases and media contacts regarding this project will be only be made by Owner, unless Owner directs otherwise in specific instances.

I-13. PROPOSALS. The proposal is considered an intent to perform. The Technical Energy Assessment (TEA) with potential Energy Conservation Measure (ECM) improvements in the proposal which provides the preliminary construction budget with estimated energy savings and guaranteed energy savings (GES) provides a baseline. Any subsequent ESCO GES proposal needs to stay within 20% of the baseline with the exception or unforeseen conditions as negotiated with the Owner.

I-14. INFORMATION CONCERNING SMALL BUSINESS ENTERPRISES. The State of Hawaii encourages all small business enterprises to compete for, win, and receive contracts for goods, services, and construction. To the extent possible or feasible, ESCO compliance with this Hawaii policy is desired. However, use of small business enterprises is not a pre-requisite requirement or an evaluation criterion for selection under this IFP process.

I-15. CAMPAIGN CONTRIBUTIONS BY STATE AND COUNTY CONTRACTORS. ESCOs are hereby notified of the applicability of Section 11-205.5, HRS, which states that campaign contributions are prohibited from contractors for State and County contracts.

I-16. SITE VISITS. During the IFP process, Owner will arrange walk-through inspection tours of the Project Sites. Buildings, dates and times will be announced at the Pre-proposal conference (see Part I-9). Site representatives will be available to answer questions about
the operation of facilities. Any technical information supplemental to material contained in this IFP will be made available for review and inspection.

**PART II. IFP INFORMATION REQUIRED FROM ESCOS**

Proposals are to be straightforward, concise presentations without extraneous material. An official authorized to bind the ESCO must sign the proposal. The proposal must remain valid for no less than ninety (90) calendar days from proposal submittal date. All Proposals become the property of the Owner. Proposals must be a complete response to the IFP. Proposals shall address the items listed in Part IV, Evaluation Criteria for IFP and shall be limited to thirty (30) single-sided pages, excluding attachments. One original, XX (xx) copies and one (1) electronic pdf copy of the proposal, including attachments shall be submitted. The original copy shall contain original signatures of the signed documents. Font size may be no smaller than 10 point. No other distribution is to be made by the ESCO.

**II-1. Proposal Attachments**

- **Attachment A: ESCO Profile Form.** Provide a complete response to the information requested in Attachment A to this IFP.

- **Attachment A-1: Technical Energy Assessment (TEA).** Provide complete responses to the information requested in Attachment A-1 to this IFP.

- **Attachment A-2: Sample Documents:** Provide sample documents of the items listed below.
  
  - Sample Customer Savings Report
  - Sample Project Commissioning Plan
  - Sample Measurement and Verification Plan
  - Sample IGA

**II-2. Attachment B: ESCO’s Preliminary Project Cost and Cash Flow Analysis.** Provide the information requested in Attachment B to this IFP. ESCOs are required to use and follow the instructions and submit the required information in the format found in Attachment B to this IFP.

**II-3. Required Compliance Documentation**

The ESCOs shall submit the following documents with their proposal due to the fast-track nature of the project schedule:
a. **Tax Clearance Requirements (Chapter 237, HRS):** Submit a tax clearance certificate from the Hawaii State Department of Taxation (DOTAX) and the Internal Revenue Service (IRS). The certificate is valid for six (6) months from the most recently approved stamp date on the certificate. The certificate must be valid on the date received by the Department.

1) **DOTAX TAX CLEARANCE APPLICATION Form A-6 (Rev 2003)** is available at DOTAX and IRS (State of Hawaii) offices or DOTAX website, and by mail or fax:
   a) DOTAX website: [www.state.hi.us/tax/alphabetlist.html](http://www.state.hi.us/tax/alphabetlist.html)
   b) DOTAX forms by fax/mail: (808) 587-7572 or 1-800-222-7572

2) Mail, fax or submit in person completed tax clearance application forms to the Department of Taxation, Taxpayer Services Branch or to the address listed on the application. Facsimile numbers are:
   a) DOTAX: (808) 587-1488 b) IRS: (808) 539-1573

3) DOTAX will return the form to the ESCOs. The ESCOs are reminded that they are responsible to submit the applications for the tax clearance directly to DOTAX or IRS and not to the Owner.

b. **DLIR Certificate of Compliance (Chapter 383 – Unemployment Insurance, Chapter 386 – Worker’s Compensation, Chapter 392 – Temporary Disability Insurance, and 393 – Prepaid Health Care, HRS):** Submit a certificate of compliance from the Hawaii State Department of Labor and Industrial Relations (DLIR). The certificate is valid for six (6) months from the date of issue. The certificate must be valid on the date received by the Department.

1) **DLIR APPLICATION FOR CERTIFICATE OF COMPLIANCE WITH SECTION 3-122-112, HAR, form LIR#27** is available at DLIR website or at the neighbor island DLIR District Office.
   a) DLIR website: [www.dlir.state.hi.us/LIR#27](http://www.dlir.state.hi.us/LIR#27)

2) Mail, fax or submit in person completed application form to the Department of Labor and Industrial Relations, Administrative Services Office at the address listed on the application.

3) DLIR will return the form to the ESCOs. The ESCOs are reminded that they are responsible to submit the application for the certificate directly to DLIR and not to the Owner.

c. **DCCA Certificate of Good Standing:** Submit a certificate of good standing issued by the Department of Commerce and Consumer affairs (DCCA), Business Registration Division (BREG). The certificate of good standing is valid for six (6) months from the date of issue. Certificates must be valid on the date received by the Department.

1) **DCCA CERTIFICATE OF GOOD STANDING** is available from the business registrations website or by telephone. ESCOs are advised there are costs associated with registering and obtaining the certificate.
b) DCCA telephone: (808) 586-2727, M-F 7:45 to 4:30 HST

2) Submit the application per DCCA’s requirements.

3) DCCA will return the form to the ESCOs. The ESCOs are reminded that they are responsible to submit the application for the certificate directly to DCCA and not to the Owner.

d. In lieu of the clearances and certificates described in items a, b and c above, to meet the requirement of §3-122-112, HAR, ESCOs may apply and register at the “Hawaii Compliance Express” website: [http://vendors.ehawaii.gov/hce/splash/welcome.html](http://vendors.ehawaii.gov/hce/splash/welcome.html)

PART III. PROJECT SCHEDULE

(SUBJECT TO CHANGE AT THE DISCRETION OF Owner)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue IFP</td>
<td>Week 1</td>
</tr>
<tr>
<td>Pre-Proposal Conference</td>
<td>Week 2</td>
</tr>
<tr>
<td>Deadline for Preliminary Inquiries 10 am:</td>
<td>Week 3</td>
</tr>
<tr>
<td>First Addendum Issued:</td>
<td>Week 4</td>
</tr>
<tr>
<td>Facility Walk Throughs</td>
<td>Weeks 3-5</td>
</tr>
<tr>
<td>Deadline for Written Inquiries 10 am:</td>
<td>Week 7</td>
</tr>
<tr>
<td>Second Addendum Issued:</td>
<td>Week 8</td>
</tr>
<tr>
<td>Proposals Due 4 pm:</td>
<td>Week 10</td>
</tr>
<tr>
<td>Oral Interviews</td>
<td>Week 13</td>
</tr>
<tr>
<td>Notice of Selected ESCO</td>
<td>Week 14</td>
</tr>
<tr>
<td>IGA Contract Executed</td>
<td>Week 16</td>
</tr>
<tr>
<td>IGA Draft Due</td>
<td>Week 22</td>
</tr>
<tr>
<td>IGA Completed</td>
<td>Week 28</td>
</tr>
<tr>
<td>Energy Savings Performance Contract Negotiations</td>
<td>Weeks 29-33</td>
</tr>
<tr>
<td>Energy Savings Performance Contract Executed</td>
<td>Week 36</td>
</tr>
</tbody>
</table>
All Time is shown as Hawaiian Standard Time (HST)
PART IV. EVALUATION CRITERIA FOR IFP

The criteria listed below will be used in the evaluation of the responses. Responses will be evaluated based on the completeness and quality of the information provided in the proposal, attachments, client references and oral interviews. Failure to provide any of the requested information may result in disqualification. Percentage weights for each category are indicated.

IV-1. Qualifications and Project Experience (30 points)
- Qualifications and experience of ESCO’s personnel with guaranteed energy savings contracts on projects similar to the Owner’s project.
- Reliability of equipment performance on past projects.
- Documented energy savings on past projects similar to the Owner’s project.
- Quality and completeness of past project documentation.
- Quality of client references.

IV-2. Project Management (25 points)
- Clear assignment of responsibility for various project tasks to specific individuals.
- Ability to effectively manage project construction and complete the project on schedule and within budget.
- Quality of approach to operations and maintenance.
- Quality of monitoring, measurement and verification services, and reporting on past projects.
- Clarity, organization, and level of detail in written proposal.
- Quality of communication skills of the ESCO’s representatives at the oral interview.
- Quality of maintenance on past projects.

IV-3. Technical Approach (25 points)
- Quality of technical approach, including methods of analysis and understanding of existing building systems and conditions.
- Quality of approach to project commissioning.
- Quality of sample investment grade audit for project similar to the Owner’s project.
- Quality of baseline energy calculations and methodology for handling modifications/changes to the baseline.
- Quality of proposed training for facility staff.
- Quality of approach to savings measurement and verification.
- Quality of customer savings reports for similar clients to the Owner.
- Quality and feasibility of proposed preliminary technical measures.

IV-4. Financial Approach (10 points)
- Financial soundness and stability of ESCO.
- Capability to develop projects which qualify for attractive financing terms.
- Reasonableness of investment grade audit costs.
- Reasonableness of Preliminary Project Costs and Cash Flow Analysis.
- Cost of annual fees for measurement and verification of savings.
IV-5 Innovation (10 points)
- Quality of proposed innovative ECMs.
- Quality of benefits from innovative ECMs.
- Ability to implement innovative ECMs.

PART V. PROJECT TERMS AND CONDITIONS FOR IGA REPORT AND ESPC PROJECT

These sections describe the minimum conditions Owner will accept from the selected ESCO. Part V-1 defines the Scope of Services, and Part V-2 defines Key Contractual Provisions.

V-1. SCOPE OF SERVICES: (TECHNICAL REQUIREMENTS).

A. Owner reserves the right of final approval of any selected equipment or modifications proposed. Only prior reviewed and approved equipment and modifications will be permitted. Review and approval shall be conducted by Owner in a timely manner.

B. The selected ESCO will be required to work with current building management and maintenance personnel, to coordinate construction and provide appropriate training in the operation of all retrofits. No equipment shall be installed that will require the hiring of additional personnel by Owner unless contract negotiations produce an explicit exemption from this rule for a specific installation.

C. The selected ESCO must provide two (2) complete sets and one (1) electronic pdf copy of reproducible "as built" and record drawings of all existing and modified conditions associated with the project, conforming to typical engineering standards. These should include architectural, mechanical, electrical, structural, and control drawings and operating manuals to be submitted within 30 days of the completed installation.

D. The selected ESCO shall be responsible for the proper removal and disposal offsite of all packaging materials and all replaced or demolished materials or equipment.

V-2. CONTRACTUAL PROVISIONS FOR IGA REPORT AND ESPC PROJECT.

A. The contents of this IFP, the selected ESCO’s proposal, the final contract for the IGA report and the “Guaranteed Energy Savings (GES)” contract may become part of the contract for this ESPC project.

B. The selected ESCO must carry the level of insurance required by Owner for the IGA and the construction and operations phases.

   a. The ESCO shall maintain in full force and effect during the life of this contract, liability and property damage insurance to protect its employees, contractor and subcontractors, if any, from claims for damages, for personal injury, accidental death and property damage which may arise from operations under this contract, whether such operations be by himself or by an contractor or subcontractor or anyone directly or indirectly employed by either of them. If any subcontractor is
involved in the performance of the contract, the insurance policy or policies shall name the contractor or subcontractor as additional insured.

b. As an alternative to the ESCO providing insurance to cover operations performed by a subcontractor and naming the subcontractor as additional insured, ESCO may require subcontractor to provide its own insurance, which meets the requirements herein. It is understood that a subcontractor's insurance policy or policies are in addition to the ESCO's own policy or policies.

c. The following minimum insurance coverage(s) and limit(s) shall be provided by the ESCO, including its contractor or subcontractor(s) where appropriate. (Insert appropriate insurance coverage as required).

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial General Liability</td>
<td>$1,000,000 per occurrence/ $2,000,000 aggregate</td>
</tr>
<tr>
<td>Including Completed Operations</td>
<td></td>
</tr>
<tr>
<td>Automobile Liability</td>
<td>$1,000,000 per accident</td>
</tr>
<tr>
<td>Professional Liability</td>
<td>$1,000,000 per occurrence/ $2,000,000 aggregate</td>
</tr>
<tr>
<td>Performance and Payments</td>
<td>Amount of contract bond</td>
</tr>
<tr>
<td>Installation Floater</td>
<td>Based upon cost of equipment</td>
</tr>
</tbody>
</table>

Each insurance policy required by this contract, including a subcontractor's policy, shall contain the following clauses:

1. "This insurance shall not be canceled, limited in scope of coverage or non-renewed until after 30 days written notice have been given to the Owner’s issuing officer for this contract."

2. "The Owner is added as an additional insured as respects to operations performed for the State of Hawaii." (Not applicable to Professional Liability insurance.)

3. "It is agreed that any insurance maintained by the Owner will apply in excess of, and not contribute with, insurance provided by this policy."

The minimum insurance required shall be in full compliance with the Hawaii Insurance Code throughout the entire term of the contract, including supplemental agreements.

Upon ESCO's execution of a contract for an Investment Grade Audit or an ESPC Project, the ESCO agrees to deposit with the Owner certificate(s) of insurance necessary to satisfy the Owner that the insurance provisions of the contract has been complied with and to keep such insurance in effect and the certificate(s)
therefore on deposit with the Owner during the entire term of construction phase work for the contract, including those of its subcontractor(s), where appropriate. Upon request by the Owner, the ESCO shall be responsible for furnishing a copy of the policy or policies.

Failure of the ESCO to provide and keep in force such insurance shall be regarded as material default under this contract, entitling the Owner to exercise any or all of the remedies provided in this contract for a default of the ESCO.

The procuring of such required insurance shall not be construed to limit the ESCO’s liability hereunder nor to fulfill the indemnification provisions and requirements of this contract. Notwithstanding said policy or policies of insurance, the ESCO shall be obliged for the full and total amount of any damage, injury, or loss caused by negligence or neglect connected with this contract.

C. All drawings, reports and materials prepared by the ESCO in performance of the contract shall become the property of Owner and shall be delivered to Owner as needed or within 10 (ten) days after construction is completed and accepted by Owner that the project is fully installed and operating.

D. The selected ESCO must secure all necessary licenses and permits and comply with all federal, state and county laws, rules and regulations with respect to this project. All work completed under this contract must be in compliance with all building codes and appropriate accreditation, certification and licensing standards.

E. The selected ESCO will be required to guarantee energy and cost savings on an annual basis. No credit for the achievement of savings above and beyond the annual guarantee will be credited to satisfy performance guarantees in future years of the contract. Annual reconciliation of the achieved savings will be required.

F. Open book pricing of all costs and mark-ups for labor, materials and services received during the project development, implementation and performance period phases of the project is required.

G. **ENERGY STAR:** Using the EPA’s ENERGY STAR tools and resources for each eligible facility, the selected ESCO will be required to provide an estimated pre-retrofit Energy Performance Rating using Portfolio Manager and an estimated post-retrofit Energy Performance Rating using the Delta Score Estimator as part of the Investment Grade Audit. As part of the final contract, the selected ESCO will also be required to submit an updated ENERGY STAR rating for each eligible facility upon completion of each guarantee year. Information regarding ENERGY STAR tools and resources, and a list of eligible facility types can be found at:

http:// energystar.gov/index.cfm?c=tools_resources.bus_energy_management_tools_resources
http://www.energystar.gov/index.cfm?c=delta.index
http://www.energystar.gov/ia/business/cfo_calculator.xls
VI-1. OWNER PARTICIPATION DURING THE IGA REPORT AND ESPC PROJECT. Owner shall review and approve equipment specifications and installation plans for all ECM prior to the implementation of any improvements or modifications. Owner approval shall be issued within 30 days of their receipt of the proposed ECM. During the implementation of ECM, Owner shall make routine inspections and be present during any equipment and systems commissioning procedures conducted by the selected ESCO and prior to the selected ESCO issuing of a Notice to Owner that it has installed and commenced operating all of the Equipment and systems.

VI-2 EXECUTION OF THE CONTRACT. Upon acceptance of the ESCO’s proposal by the Owner, the ESCO shall provide satisfactory performance and payment bonds, within ten (10) calendar days after award of the GES contract or within such further time as granted by the Owner. No proposal or contract shall be considered binding upon the Owner until the contract has been fully executed by all parties.

VI-3 PERFORMANCE, LABOR AND MATERIAL PAYMENT BONDS. At the time of execution of the contract, and prior to the start of construction, the ESCO shall obtain good and sufficient performance and payment bonds covering the construction of the energy conservation measures (ECMs) described in the GES contract. The bond, shall be in an amount equal to one hundred percent (100%) of the total lump sum installation cost of construction of the ECMs. The bond will not be required to cover the operation and maintenance of the ECMs after construction is complete. The form and content of such bonds shall be in a form acceptable to the Owner.

Acceptable performance and payment bonds shall be limited to the following:

a. Surety bonds underwritten by a company licensed to issue bonds in this State; or

b. A certificate of deposit; credit union share certificate; or cashier’s, treasurer’s, teller’s or official check drawn by, or certified check accepted by, and payable on demand to the State by the bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation (FDIC) or the National Credit Union Association (NCUA).

1) These instruments may be utilized only to a maximum of $100,000.

2) If the required security or bond amount totals over $100,000, more than one instrument not exceeding $100,000 each and issued by different financial institutions shall be acceptable.

If the ESCO fails to deliver the required performance and payment bonds, the ESCO’s award shall be cancelled.
VI-4. **MINIMUM WAGE RATES.** All work for ECM under ESPC projects shall be done in compliance with Chapter 104, HRS, “Prevailing Wages for Public Works Project”.
ATTACHMENT A

ESCO PROFILE FORM

NOTE: If this project is proposed to be implemented as a joint venture or partnership, this Attachment A should be completed for each firm, including client references for energy performance contracting projects implemented by each firm.

1. **Firm Name:** __________________________________________________________

   Business Address: ______________________________________________________

   City: _________________ State: _______________________ Zip Code: ___________

   a. **Names and Titles of Two Contact People**

      1) ___________________________ Phone (_______) __________________

      2) ___________________________ Phone (_______) __________________

   b. **Submittal is for**

      □ Parent Company (List any Division or Branch Offices to be involved in this project)

      □ Division (attach separate list if more than one is to be included)

      □ Subsidiary

      □ Branch Office: _____________________________

      Name of Entity: _____________________________

      Address: __________________________________

                        _____________________________

2. **Type of Firm**  □ Corporation  □ Partnership  □ Sole Proprietorship  □ Joint Venture

3. **Federal Employer Identification Number:** ________________________________

4. **Year Firm was Established:** ________________________________

5. **Name and Address of Parent Company, (if applicable)**

   ______________________________________

   ______________________________________
6. Former Firm Name(s), (if applicable): ____________________________________________

7. Minority Business Enterprise

   a. Please indicate if your firm is a recognized Minority Business Enterprise ☐ Yes ☐ No

   b. If yes, please indicate the appropriate category

      ☐ Native American ☐ Hispanic ☐ Asian-Pacific American

      ☐ Asian-Indian American ☐ Black ☐ Other ________________________________

8. Five Year Summary of Contract Values for Energy Performance Contracting Projects

   20__: $_____________ (to date) 20__: $_________ ____ 20__: $_____________

   20__: $_____________ 20__: $_____________

   NOTE: All questions must be addressed by the ESCO in order for this qualification form to be properly completed. Failure to answer any question, or comply with any directive contained in this form may be used by the Owner as grounds to find them ineligible. If a question or directive does not pertain to your organization in any way, please indicate that fact with the symbol N/A. For additional space attach 8-1/2" x 11" sheets and indicate reference number (i.e., 12a, 12b, etc.) to correspond to each question.

9. CORPORATE BACKGROUND/HISTORICAL DATA

   a. How many years has your firm been in business under its present business name?
   Years

   b. Indicate all other names by which your firm has been known and the length of time known
   by each name.

   _____________________________________________________

   c. How many years has your firm been involved in energy performance contracting?
   _____________ Years

   d. Indicate the number of all energy performance contracting projects implemented by and
   currently under contract with your firm. Limit your response to ONLY those projects that
   have been managed directly by the specific branch, division, office or any individual in
   such branch, division or office that will be specifically assigned to this project. Attach
   additional sheets as necessary.

   e. Please identify all states in which your firm is legally qualified to do business.

   _____________________________________________________
10. **PERSONNEL INFORMATION**

a. Please indicate the number of full time personnel employed by your firm and the number available to work on this project.

b. **Project Team Members.**

Briefly describe the relevant experience, qualifications and educational background for each individual team member assigned to Owner’s project using the format provided below. Do not include individual resumes in lieu of this information.

<table>
<thead>
<tr>
<th>Name of Project Team Member:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Job Title:</td>
</tr>
<tr>
<td>Job responsibilities:</td>
</tr>
<tr>
<td>Number of years with ESCO:</td>
</tr>
<tr>
<td>Primary Office Location:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Employment History</th>
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</thead>
<tbody>
<tr>
<td>Company Name:</td>
</tr>
<tr>
<td>Primary job responsibilities:</td>
</tr>
<tr>
<td>Number of years with firm:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Educational Background</th>
</tr>
</thead>
<tbody>
<tr>
<td>List all academic degrees, certifications, professional affiliations, relevant publications and technical training.</td>
</tr>
</tbody>
</table>

| List all guaranteed energy performance contracting projects this individual has been involved with during past 5 years. Include project location, type of facilities, year implemented and dollar value of installed project costs. |

| Describe the specific role and responsibilities this |
individual had for each listed project.

<table>
<thead>
<tr>
<th>Provide a detailed description of the role and responsibilities this individual will have for the duration of this project.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe any other relevant technical experience.</td>
</tr>
<tr>
<td>Indicate the total years of relevant energy-related experience for this individual.</td>
</tr>
</tbody>
</table>

c. Submit an organizational chart that clearly identifies the roles and relationships of all key team members.

d. Indicate whether your firm is currently accredited by the National Association of Energy Service Companies (NAESCO). ESCOs are not required to be accredited by NAESCO. All NAESCO accredited ESCOs will receive additional points.

e. Certify that your firm will comply with all terms and conditions contained in the Owner’s Invitation for Proposals (IFP) and contract documents.

f. Briefly describe the types of financing used by your firm for past energy performance contracts, including the source of funds and the potential dollar amounts currently available to your firm to finance these types of projects.

11. FINANCIAL REFERENCES

a. Provide a company prospectus to include a Balance Sheet and Cash Flow statement not more than fifteen (15) months old.

b. Please provide the name, address, and the telephone number of the firm(s) that prepared the Financial Statements.

c. Please enclose banking references including financial institution, address, contact person, telephone number, and specific information on your firm’s credit that may be used to fund construction for large-scale projects.

d. Maximum individual project and aggregate bonding limits.

e. Please certify that your company does not owe the State of Hawaii any taxes.
f. Please certify that your company is not currently under suspension or debarment by the State of Hawaii, any other state, or the federal government.

g. Please identify your firm's legal counsel for this project. Give the name and address of the primary individual responsible for contract negotiation.
### 12. PROJECT HISTORY & CLIENT REFERENCES

Using the following forms, list five (5) energy performance contracting projects currently in repayment and under contract with your firm which most resemble the scope of this project and list all energy performance contracting projects performed in the State. Limit your response to ONLY those projects that have been managed directly by the specific branch, division, office or any individual in such branch, division or office who will be specifically assigned to this project. Projects with installed costs of less than $500,000 or single technology (e.g. lighting only, controls only, etc.) will not be considered. Attach additional sheets as necessary. Please put an asterisk by those project references involving buildings similar to the building(s) described in Attachment C. All information is required.

<table>
<thead>
<tr>
<th>Project Name, Location and Owner</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Project Dollar Amount (installed project costs)</td>
<td></td>
</tr>
<tr>
<td>Primary ECMs Installed</td>
<td></td>
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<tr>
<td>Date Construction Started</td>
<td></td>
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<tr>
<td>Date Constructed Completed</td>
<td></td>
</tr>
<tr>
<td>Guarantee Period Start &amp; End Dates</td>
<td></td>
</tr>
<tr>
<td>Dollar Value of Projected Annual Energy Savings</td>
<td></td>
</tr>
<tr>
<td>Dollar Value of Guaranteed Annual Energy Savings</td>
<td></td>
</tr>
<tr>
<td>Dollar Value and Type of Annual Operational Cost Savings (if applicable) (e.g., outside maintenance contracts, material savings, etc.)</td>
<td></td>
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<tr>
<td>Method(s) of Savings Measurement and Verification</td>
<td></td>
</tr>
<tr>
<td>Provide the names of the primary personnel involved in this project and their specific roles and responsibilities.</td>
<td></td>
</tr>
</tbody>
</table>
Provide CURRENT and ACCURATE telephone and FAX numbers of the Owner(s)’ representatives with whom your firm did business on this project. You should ensure that all representatives are familiar with this project.

### 13. SUMMARY OF ENERGY SAVINGS PERFORMANCE DATA

For each project described above, complete the following table. Energy savings data must be provided in fuel units.

**ANNUAL ENERGY SAVINGS**

<table>
<thead>
<tr>
<th>Projected</th>
<th>Guaranteed</th>
<th>Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Year 1</td>
<td>Year 2</td>
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<tr>
<td>KWH</td>
<td></td>
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<td>Therms</td>
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<td>Water kGallons</td>
<td></td>
<td></td>
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<tr>
<td>Other (Specify)</td>
<td></td>
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</tbody>
</table>
ESCO’s TECHNICAL ENERGY ASSESSMENT

Each respondent is required to fully answer all questions in each category listed below. Respondents must also include a Table of Contents, which indicates the section and page numbers corresponding to the information included. Failure to submit the required information as specified in this IFP will result in the deduction of points.

1. PROJECT MANAGEMENT

1.0 Project Summary.

Summarize the scope of services (design, financial, operations, maintenance, training, etc.) offered by your firm for this project including the added value to Owner of your firm's services.

1.1 Project Work Plan and Milestones.

Describe your proposed management plan for accomplishing the work. Provide a proposed project schedule and a sample timeline of milestones necessary to implement all phases of the project.

1.2 Training Provisions.

Describe your firm’s proposed approach to providing technical training for facility personnel. Indicate the proposed number of personnel to be trained and the type and frequency of training to be provided for the duration of the contract. Indicate how your firm will address any turnover of key facility personnel as it relates to project performance.

1.3 Project Financing.

Describe your firm's preferred approach to providing or arranging financing for this project. Describe the structure of the financing arrangement including projected interest rate, financing term, repayment schedule, equipment ownership, security interest required, the responsibilities/liabilities of each party, and any special terms and conditions that may be associated with the financing of this project. Describe how construction will be financed.
2. SITE SPECIFIC

2.0 Technical Site Assessment.

Based upon your preliminary technical energy assessment and available information, discuss the site conditions, status of building systems, current operating procedures and potential cost-effective energy improvement opportunities. Describe any equipment modifications, installations or replacements at the facilities that you propose to implement and those which warrant further study. Describe any operational changes you would recommend. If innovative or exotic technologies are being proposed please provide information on previous installations on similar projects, including cost and performance results, and your company’s in-house expertise or subcontractor relationship established to implement the technology.

2.1 Energy Baseline Calculation Methodology and Measurement and Verification Plan

Describe in the methods used to compute baseline energy use. Describe any computerized modeling programs used by your firm to establish baseline consumption. Please summarize procedures, formulas and methodologies including any special metering or equipment, your firm will use to measure and calculate energy savings for this project. Describe the methods used to adjust the guaranteed level of savings from any material changes that occur due to such factors as weather, occupancy, facility use changes etc. Indicate any operational cost savings opportunities and how such savings are to be identified, documented and measured. Describe your firm’s proposed approach to treatment of savings achieved during construction and how those savings will be documented and verified.

2.3 Equipment Maintenance Approach

Please describe any major changes in operations or maintenance for this project that your company anticipates. Include a description of the types of maintenance services projected for this project. Please discuss the role of Owner’s personnel in performing maintenance on the new and existing equipment. Discuss the relationship of maintenance services to the savings guarantee, any required duration of the maintenance agreement and what impact termination of maintenance prior to the end of the contract term would have on the savings guarantee.

ATTACHMENT A-2
SAMPLE DOCUMENTS

Each ESCO shall provide sample documents of the items listed below:

Sample Customer Savings Report
Sample Project Commissioning Plan
Sample Measurement and Verification Plan
Sample IGA with costs
# ATTACHMENT B

ESCO's Preliminary Project Cost and Cash Flow Analysis

State of Hawaii

Energy Savings Performance Contracting Project

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Agency Name:</th>
<th>ESCO Name:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Fee Category</th>
<th>Fees(^{(1)}) Dollar ($) Value</th>
<th>Percentage of Hard Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated Value of Hard Costs(^{(2)}):</td>
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<td></td>
</tr>
<tr>
<td>Project Service Fees</td>
<td></td>
<td></td>
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<tr>
<td>Investment Grade Audit</td>
<td></td>
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<tr>
<td>Design Engineering Fees</td>
<td></td>
<td></td>
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<tr>
<td>Construction Management</td>
<td></td>
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<tr>
<td>System Commissioning</td>
<td></td>
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<tr>
<td>Initial Training Fees</td>
<td></td>
<td></td>
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<tr>
<td>Contingency Costs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Interest</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Service Fees Sub Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL FINANCED PROJECT COSTS:</td>
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</table>

**PROPOSED ANNUAL SERVICE FEES**

<table>
<thead>
<tr>
<th>First Year Annual Service Fees</th>
<th>Fees(^{(1)}) Dollar ($) Value</th>
<th>Percentage of Hard Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement and Verification</td>
<td></td>
<td></td>
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<tr>
<td>ENERGY STAR™ Services</td>
<td></td>
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<tr>
<td>Maintenance</td>
<td></td>
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<td>Performance Monitoring</td>
<td></td>
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<tr>
<td>On-going Training Services</td>
<td></td>
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<tr>
<td>Verification Reports</td>
<td></td>
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<tr>
<td>TOTAL FIRST YEAR ANNUAL SERVICES</td>
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</tbody>
</table>

**NOTES:**

1. Fees should include all mark-ups, overhead, and profit. Figures stated as a range will not be accepted.

2. The total value of Hard Costs is defined in accordance with standard AIA definitions that include: Labor Costs, Subcontractor Costs, Cost of Materials and Equipment, Temporary Facilities and Related Items, and Miscellaneous Costs such as Permits, Bonds Taxes, Insurance, Mark-ups, overhead and profit, etc.

ESCO’s proposed interest rate available at the time of submission:

Financial Institution:

Contact person:
ESCO's PRELIMINARY ANNUAL CASH FLOW ANALYSIS

For the purposes of preparing the Preliminary Cost Proposal and Preliminary Cash Flow Analysis, a 20-year contract term and interest rate of ___% must be used. (NOTE: Owner should supply all indicated escalation rates.)

<table>
<thead>
<tr>
<th>Financed Project Costs:</th>
<th>Escalation Rate by Utility/Fuel</th>
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<tbody>
<tr>
<td>Finance Term:</td>
<td>20 years</td>
</tr>
<tr>
<td>Annual Interest Rate:</td>
<td>Electric: ___%</td>
</tr>
<tr>
<td>Construction Months</td>
<td>Water: ___%</td>
</tr>
<tr>
<td>Annual Payment</td>
<td>Other (specify): ___%</td>
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<tr>
<td>Principal</td>
<td></td>
</tr>
<tr>
<td>Interest</td>
<td></td>
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<tr>
<td>Escalation Rate for Annual Fees: ___%</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Yr.</th>
<th>Electric Cost Savings</th>
<th>Water Cost Savings</th>
<th>Other Please Specify</th>
<th>Operational Cost Savings</th>
<th>Total Cost Savings</th>
<th>Maintenance Monitoring, M&amp;V, &amp; Training Fees</th>
<th>Guaranteed Cost Savings</th>
<th>Financing Payment</th>
<th>Net Savings</th>
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</thead>
<tbody>
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</tbody>
</table>
ATTACHMENT C

STATE OF HAWAII

PROJECT SITE(S)

(PLEASE INSERT ADDRESSES FOR THE PROJECT SITE(S) LISTED)
ATTACHMENT D

STATE OF HAWAII

TECHNICAL FACILITY PROFILE(S)
TECHNICAL FACILITY PROFILE(s)

SECTION I: GENERAL FACILITY DATA

Please use additional pages as required.

1. Name of Building_____________________________________________________
2. Address of Building__________________________________________________
3. Primary Use __________________________________________________________
4. Building Engineer ____________________________Phone:____________________

SECTION II: OPERATING DATA

1. Please describe the manufacturer(s), age, type and condition of the HVAC control system(s) used in the building(s).
2. If you have an operating Energy Management System (EMS) controlling your building, please list the manufacturer, year installed and operating conditions.

SECTION III: PHYSICAL DATA

1. ______ Gross floor area (SF)
2. ______ Weekly operating hours
3. ______ # of workers on main shift
4. ______ # of personal computers
5. ______ Percent of floor area that is air conditioned  (>=50%, <50%, or none)
6. ______ Percent of floor area that is heated  (>=50%, <50%, or none)

SECTION IV: ENERGY SYSTEMS DATA

Please provide as much of the following information as is available.

1. Briefly describe the major type(s) of HVAC system(s) serving your building (i.e.; terminal reheat, multizone, variable air volume, etc.) Indicate the main fuels used to operate the heating and cooling systems.
2. Estimate the percentage of total area lighted by fluorescent ballasts and bulbs, and incandescent bulbs. Estimate the approximate annual hours of operation for each type of lighting. If you have a significant amount of HID lighting, please describe it in similar terms. Indicate the percentage of fluorescent lighting, if any, which has been upgraded
to electronic ballasts and T-8 lamps. Describe the age of existing fixture and ballast systems for each lighting type.

SECTION V: IMPROVEMENT OPPORTUNITIES

3. Briefly describe any serious equipment, operating, or comfort problems in your building(s). Identify any major mechanical, control or electrical systems scheduled for replacement during the next five years.

4. Briefly list any major energy conservation options identified by a previous analysis of your building.
SECTION VI: ENERGY AND WATER CONSUMPTION DATA

Please summarize utility consumption and costs for all fuel types, including water, over the last three (3) years for each project site using the forms that follow. If you are buying contract gas give your monthly price history, if available, on a separate sheet for your cost of gas. Please attach copies of all utility rate schedules that apply to your building.

ELECTRIC CONSUMPTION

Name of Facility: _________________________  Type of Fuel: _____________________________
Location: _______________________________  Name of Utility: ___________________________

<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th>Demand KW</th>
<th># of KWH</th>
<th>Total Cost</th>
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<tbody>
<tr>
<td>Jan.</td>
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<td>Dec.</td>
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<td>TOTALS</td>
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<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th>Demand KW</th>
<th># of KWH</th>
<th>Total Cost</th>
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<td>TOTALS</td>
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</table>
SYNTHETIC NATURAL GAS
Name of Facility: _________________________
Location:  _______________________________
Name of Utility: __________________________

<table>
<thead>
<tr>
<th>Billing Month/Yr.</th>
<th># Days</th>
<th># of Therms</th>
<th># of CCF</th>
<th>Total Cost</th>
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<tbody>
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**Location:** _______________________________
**Name of Utility:** __________________________

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Location: _______________________________
Type of Fuel: __________________________
Name of Utility: _________________________

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SITE BASELINE DATA COLLECTION

Please provide as much of the following information as is available.

1. What is your current annual maintenance budget? $__________________
2. What is the total square footage managed with that budget? ______________
3. What is your current maintenance budget for internal staff (salaries and benefits)? $________________
4. What is your annual budget for external maintenance contracts? $___________
5. What is the average number of square feet managed per maintenance staff person? ______________
6. What is your current estimate of deferred maintenance in total dollars and dollars per square foot? $_______ $/sf__________
7. What is your current capital budget allocation as a percentage of your total capital budget requests? _______%
8. What is the total annual number of facility maintenance complaints? _______
9. What is the total number of occupants in the building? _______________
What is the average number of square feet of building space per building occupant? ____________
10. What is the average number of annual sick days per worker? ______________
11. What is the annual number of voluntary worker resignations? ______________
12. Please estimate the percentage of your annual maintenance budget that is spent on corrective or reactive maintenance. $______________
   Please estimate the percentage of your annual maintenance budget that is spent, on preventative, predictive, or proactive maintenance. $______________
13. Can you identify any specific building system that has a potentially large negative impact on employee health, productivity or morale? ___ Yes ___ No
   If yes, what is that building system?
14. Do you currently track indoor air comfort and air quality complaints? ___ Yes ___ No
15. Do you survey building occupants annually as to IAQ, comfort, and lighting? ___ Yes ___ No
APPENDIX G

INVESTMENT GRADE AUDIT AGREEMENT

This Energy Audit Agreement is entered into on__________, 200_, by and between ______________________________ (the "Customer") and __________________ (the "Company"). The Customer and the Company are referred to herein as the "Parties".

Whereas, the Customer has issued an Invitation for Proposals (IFP) to identify a qualified Energy Service Company (ESCO) to implement an energy performance contract (EPC);

Whereas, the Company submitted a response to the IFP and participated in a competitive procurement process designed by the Customer to identify a qualified ESCO;

Whereas, the Customer has selected the Company as a result of it’s competitive procurement process;

Whereas, the Customer is responsible for the operation, management and maintenance of ___________ (the "Facility");

Whereas, a comprehensive energy use and savings analysis (the "Energy Audit") must be performed at the Facility in order to determine the feasibility of entering into an Energy Performance Contracting Project to provide for the installation and implementation of energy conservation measures (ECMs) at the Facility;

Whereas, if the ECMs are demonstrated to be feasible, and if the amount of energy savings can be reasonably ascertained and guaranteed in an amount sufficient to cover all costs associated with an energy performance contracting project at the Facility, the Parties intend to negotiate a Guaranteed Energy Savings (GES) contract under which the Company shall design, procure, implement, provide training, maintain and monitor such energy conservation measures at the Facility;

Therefore, the Parties agree as follows:

ARTICLE 1: SCOPE OF ENERGY AUDIT

The Company will perform the Energy Audit and prepare a detailed engineering and economic report (the "Report") which specifically identifies the energy improvements and operational changes which are recommended to be installed or implemented at the Facility. The Report shall contain detailed projections of energy and cost savings to be obtained at the Facility as a result of the installation of the recommended energy conservation measures (ECMs). The savings calculations must utilize assumptions, projections and baselines which best represent the true value of future energy or operational savings for the Facility, including accurate marginal cost for each unit of savings at the time the audit is performed; documented material and labor costs actually avoided; adjustments to the baseline to reflect current conditions at the Facility, compared to the historic base period; calculations which account for the interactive
The Report shall clearly describe how utility tariffs were used to calculate savings for all ECMs. The Report shall describe the Company’s plan for installing or implementing the measures in the Facility, including all anticipated costs associated with such installation and implementation. The primary purpose of the Report is to provide an engineering and economic basis for negotiating a GES contract between the Customer and the Company; however, the Customer shall be under no obligation to negotiate such a contract.

The Company shall perform the following tasks in performing the Energy Audit and preparing the Report:

A. Collect General Facility Information

The Company shall collect general Facility information such as: size, age, construction type, condition and general use of the Facility. The Company shall also collect and summarize Facility utility cost and consumption data for the most recent 36-month period. Company shall evaluate the impact on utility cost and consumption for any energy measures currently being installed or currently contemplated to be installed by the Customer in the Facility which will remain separate from the Energy Services Agreement for the duration of that agreement.

Customer shall furnish (or cause its energy suppliers to furnish) all available records and data concerning energy and water usage for the Facility for the most current 36 month period, if available, including: Utility records; occupancy information; descriptions of any changes in the structure of the Facility or its heating, cooling, lighting or other systems or energy requirements; descriptions of all major energy and water consuming or energy and water saving equipment used in the Facility; and, description of energy management procedures presently utilized. The Facility shall also furnish a record of any energy related improvements or modifications that have been installed during the past three years, or are currently being installed or are currently contemplated to be installed by the Customer in the Facility separate from the Energy Service Agreement for the duration of that agreement. The Customer shall also provide copies of drawings, equipment logs and maintenance work orders to the Company insofar as this information is readily available.

B. Inventory Existing Systems and Equipment

Company shall compile an inventory based on a physical inspection of the major electrical and mechanical systems at the Facility, including:

- Cooling systems and related equipment
- Heating and heat distribution systems
- Automatic temperature control systems and equipment
- Air distribution systems and equipment
- Outdoor ventilation systems and equipment
- Kitchen and associated dining room equipment, if applicable
- Exhaust systems and equipment
- Hot water systems
- Electric motors 5 HP and above, transmission and drive systems
- Interior and exterior lighting
- Laundry equipment, if applicable
- Water consumption end uses, such as restroom fixtures, water fountains, irrigation, etc.
- Other major energy using systems, if applicable
The inventory shall address the following considerations:

1. The loads, proper sizing, efficiencies or hours of operation for each system; (Where measurement costs, facility operating or climatic conditions necessitate, engineering estimates may be used, but for large fluctuating loads with high potential savings, appropriate measurements are required unless waived by the Customer).

2. Current operating condition for each system;

3. Remaining useful life of each system;

4. Feasible replacement systems

5. Hazardous materials and other environmental concerns

The Company shall use data loggers and conduct interviews with Facility operation and maintenance staff regarding the Facility's systems operation, occupancy patterns and problems with comfort levels or equipment reliability.

C. Establish Base Year Consumption and Reconcile with End Use Consumption Estimates

Company shall examine the most recent 36 months of utility bills and establish Base Year consumption for electricity, fossil fuels and water by averaging; or selecting the most representative contiguous 12 months. Company shall consult with Facility staff and account for any unusual or anomalous utility bills which may skew Base Year consumption from a reasonable representation.

Company shall estimate loading, usage and/or hours of operation for all major end uses representing more than 5% in aggregate of total Facility consumption including, but not limited to:

- Water
- Lighting
- Heating
- Cooling
- HVAC motors (fans and pumps)
- Plug load
- Kitchen equipment
- Other equipment
- Miscellaneous

Where loading and/or usage are highly uncertain Company shall employ spot measurement and/or short term monitoring at its discretion, or at the request of the Customer. Reasonable applications of measurement typically include variable loads that are likely candidates for conservation measures, such as cooling equipment. The annual end use estimated consumption shall be reconciled with the annual Base Year consumption to within 5% for electricity (kWh), fossil fuels and water. The contribution to electric peak demand for each end use shall also be reconciled to within 5% of the annual Base Year...
peak. The “miscellaneous” category shall not be more than 5%. The purpose of this is to place reasonable limits on potential savings.

D. Develop List of Potential Energy Conservation Measures (ECMs)

The Company shall:

1. Identify and propose potential ECMs for installation or implementation at the Facility(s), including cut sheets on proposed equipment. For non-standard ECMs provide information regarding product site installations.

2. Provide a detailed estimate of the cost, savings and life expectancy of each proposed ECM.

3. Specify Facility(s) operations and maintenance procedures which will be affected by the installation/implementation of the proposed ECMs.

4. Provide analysis methodology, supporting calculations and assumptions used to derive baselines (e.g. lighting operating hours) and estimate savings. Provide the existing and proposed air and hot water temperatures, amount of outdoor air ventilation (CFMs) lighting and acoustic levels. Provide copies of the utility tariffs and commodity price histories used in savings calculations. Manual calculations should disclose essential data, assumptions, formulas, etc. so that a reviewer could replicate the calculations based on the data provided.

5. For savings estimates using computer simulations, the Company shall provide access to the program and all inputs and assumptions used, if requested by the Agency.

6. Provide a detailed preliminary savings measurement and verification plan for each proposed ECM.

7. Provide a detailed preliminary commissioning plan for the proposed ECMs.

8. Provide detailed calculations for any rate saving proposals.

9. Provide detailed supporting calculations for any proposed maintenance, material or other operational savings. Describe annual variances in savings from year to year (e.g. lighting, warranties).

10. Estimate any environmental costs or benefits of the proposed ECMs (e.g. disposal costs, avoided emissions, water conservation, etc.). Provide emissions reductions data for NOX, CO2 and SO2. Segment emissions data for direct site emissions reductions (e.g. fossil fuels) and indirect emissions reduction data (e.g. electricity/water).

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1 (Optional) ECMs of particular interest to Agency are specified in Attachment A and should be addressed in the Report. The attached list is not intended to be exhaustive nor limit the Company’s evaluation and development of a comprehensive list of potential ECMs.
11. For all proposed ECMs, Company shall comply with all applicable state, federal and local codes and regulations in effect at the time of this analysis.

This list shall be compiled and submitted to the Customer within ___ days (120 days is recommended) of the execution of this Project Development Agreement.

E. Select Final Recommended ECMs

Company shall, in consultation with the Customer, recommend specific ECMs from its preliminary compilation for installation and implementation at the Facility.

F. Cost and Fee Estimates

Company shall provide detailed estimates of costs associated with the installation, implementation and commissioning of each of the ECMs proposed in the Audit including breakouts for labor, materials, and equipment. In addition, project cost data must be provided in the format included in Attachment B: ESCO Cost Proposal and Cash Flow Analysis.

Company shall also provide estimates of monthly costs associated with sustaining the project performance including breakouts for maintenance fees, monitoring fees, and training fees.

G. Savings Estimates

The Customer has endeavored to provide the Company with sufficient general and specific guidance in this Article 1 to develop the savings estimates for the Report. In the event that questions arise as to the calculation of savings or whether certain items will be allowed as savings, the Company should seek written guidance from the Customer. The Customer reserves the right to reject items claimed as savings which are not in the Customer’s utility budget line or which have been claimed contrary to the guidance given in this agreement or contrary to written guidance given to Company. The Customer also reserves the right to reject Company calculations of savings when it determines that there is another more suitable or preferable means of determining or calculating such savings.

For the purposes completing the Cash Flow Analysis in Attachment B, the following items will be allowed as savings or in the development of savings:

- Escalation rates of _____% for natural gas
- Escalation rates of _____% for electricity
- Escalation rates of _____% for oil
- Escalation rates of _____% for steam
- Escalation rates of _____% for water
- Escalation rates of _____% for other fuel type (specify)
- Escalation rates of _____% for operation and maintenance cost savings
- Escalation rates of _____% for material/commodity cost savings

2 It should be noted that the base rate value for each fuel and water unit will not devalue in the event of any rate decrease. The customer reserves the right to impose ceiling rates for fuel escalations.
Escalation rates of ______% for allowable labor savings

The following items will not typically be credited as savings derived from a proposed ECM. The Company may seek exemptions from the Customer on a case-by-case basis. However, the final determination of allowable savings in each case considered shall reside with the Customer:

- Customer in-house labor cost
- Customer deferred maintenance cost
- Offset of future Customer capital cost

H. **Report Format**

The Company shall prepare a two-volume report as follows:

*Each volume should be submitted using 8 ½ " x 11" sheets of paper and a font size no smaller than 10 point. The pages in each volume should be numbered sequentially, include a Table of Contents and tabbed with the visible titles of corresponding Schedules (Volume 1) or Sections (Volume 2).*

**Volume 1 of 2** shall include the presentation of information in the following Schedules required for the GES contract to the extent the information has been developed during the course of performing the audit. Preliminary information and incomplete schedules will be finalized during audit negotiations, prior to execution of the GES contract.

- **Schedules**
  - Schedule A: Equipment to be Installed by Company
  - Schedule B: Energy Savings Guaranty
  - Schedule C: Compensation to ESCO
  - Schedule D: Description of the Premises
  - Schedule E: Calculation of Baseline/Benchmarks; Methodology to Adjust Baselines
  - Schedule F: Financing Agreement
  - Schedule G: Company Maintenance Responsibilities
  - Schedule H: Customer Maintenance Responsibilities
  - Schedule I: ECMs Operation Parameters/Standards of Comfort and Service
  - Schedule J: Company Training Responsibilities
  - Schedule K: Construction and Installation Schedule
  - Schedule L: Current and Known Future Capital Projects at the Premises
  - Schedule M: Pre-Installation Equipment Inventory
  - Schedule N: Methods of Savings Measurement and Verification
  - Schedule O: Systems Startup and Commissioning of ECMs
  - Schedule P: Alternative Dispute Resolution Procedures
  - Schedule Q: Insurance and Bonds
  - Schedule R: Warranties
  - Schedule S: Proposed Final Project Costs & Final Project Cash Flow Analysis (See Attachment B at the end of this Energy Audit Agreement)

- **Exhibits**
  - Exhibit I: Performance Bond/Construction Bond
Exhibit II (i) Certificate of Acceptance—Energy Audit Report
Exhibit II (ii) Certificate of Acceptance—Installed Equipment

Volume 2 of 2 shall include all of the information required in Section D and the Sections below, and presented in the following format:

1. **Executive Summary**: Provide an executive summary which describes the Facility(s), measures evaluated, analysis methodology, results and a summary table presenting the cost and savings estimates for each recommended measure. Include a summary of the recommended measures and costs using the table format provided below.

<table>
<thead>
<tr>
<th>ECM</th>
<th><strong>TOTAL COST</strong></th>
<th><strong>ENERGY COST SAVINGS</strong></th>
<th><strong>SIMPLE PAYBACK</strong></th>
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2. **Measures Not Evaluated**: Include a discussion of measures not evaluated in detail and the explanation of why a detailed analysis was not performed.

3. **Baselines**: Provide a summary of all utility bills, consumption baselines and how they were established, and end use reconciliation with respect to the baselines including a discussion of any unusual characteristics and findings.

4. **ECM Summaries**: Provide detailed descriptions for each ECM including analysis method, supporting calculations (may be submitted in appendices), results, proposed equipment and implementation issues. Provide a financial analysis for each proposed ECM (See Section F).

5. **Cost and Savings Estimates**: Conclusions, observations and caveats regarding cost and savings estimates.

6. **Appendices**: Provide thorough appendices which document the data relied upon to prepare the analysis and how that data was collected.

**Submission of the Report**

The Report shall be completed within ____ days (120 days is recommended) of the date of execution of this Energy Audit Agreement. The cost for the completed Energy Audit and Report will be ______.
ARTICLE 2: GUARANTEED ENERGY SAVINGS (GES) CONTRACT

The Parties intend to negotiate a GES contract under which the Company shall design, install and implement energy conservation measures which the Parties have agreed to and provide certain training, maintenance and monitoring services. However, nothing in this Agreement should be construed as an obligation on any of the Parties to execute such a GES contract. The terms and provisions of such a GES contract shall be set forth in a separate agreement.

ARTICLE 3: PAYMENT

Payment to Company for services performed in connection with the Energy Audit Agreement shall be made by Customer only in accordance with the provisions of Article 4 herein.

ARTICLE 4: TERMINATION

A. By Contractor:

Company may terminate this Agreement prior to the completion of the Energy Audit and Report or subsequent to the scheduled completion of the Energy Audit and Report if:

(i) it determines that it cannot guarantee a minimum ___% savings in energy costs through the implementation of an energy performance contracting project at the Facility; or

(ii) it determines that even though it can guarantee a ___% savings in energy costs, that amount would be insufficient to cover the costs associated with performing the Audit, installing energy conservation measures and related training, maintenance and monitoring services.

In the event Company terminates the Agreement pursuant to Section 4 A (i) or (ii) the Customer shall not be obligated to pay any amount to Company for services performed or expenses incurred by Company in performing the Energy Audit and Report required under this Agreement. Company shall provide the Facility with any Audit documents (preliminary notes, reports or analysis) which have been produced or prepared prior to the effective date of the termination. Company will return any documents or information that was provided by the Customer.

Termination under this section shall be effective upon Customer’s receipt of written notification from the Company stating the reason for the termination and all documents which support termination pursuant to 4 A (i) or 4 A (ii) herein.

B. By Customer:

Customer may terminate this Agreement:

(i) If the Company fails to complete the Energy Audit and deliver the Report to the Customer by the date established in Article 1 H. above; or fails to obtain a written extension of that date from the Customer. Termination under this subsection B (i)
shall be effective upon Company's receipt of written notification from the Customer that the deadline for submission of the Energy Audit and Report has past. In this event, the Customer shall not be obligated to pay any amount to Company for services performed or expenses incurred by the Company in performing the Energy Audit and preparing the Report required under this Agreement. Company shall provide the Facility with any Audit documents (preliminary notes, reports or analysis) which have been produced or prepared prior to the effective date of the termination. Company will return any documents or information that was provided by the Customer.

(ii) If, prior or subsequent to the completion of the Energy Audit or Report, the Company notifies the Customer in writing that it is unable to guarantee a sufficient level of savings pursuant to subsection 4 A (i) or (ii) above. Termination under this subsection B (ii) shall be effective upon Company's receipt of written notification of termination from the Customer. In this event, the Customer shall not be obligated to pay any amount to Company for services performed or expenses incurred by Company in performing the Energy Audit and preparation of the Report required under this Agreement. Company shall provide the Facility with any Audit documents (preliminary notes, reports or analysis) which have been produced or prepared prior to the effective date of the termination. Company will return any documents or information that was provided by the Customer.

(iii) If, prior or subsequent to the completion of the Energy Audit or Report, the Customer notifies the Company in writing that it has elected to terminate this Agreement and not enter into a GES contract, the Customer shall reimburse the Company for either the actual expenses incurred or percent of the Audit and Report completed as of the effective date of the termination, the amount being determined as fair and equitable by the Customer. Termination under this subsection B (iii) shall be effective upon Company's receipt of written notification from the Customer.

Company agrees to provide the Customer with any records of expenses incurred and any preliminary notes, reports or analyses which have been produced or prepared prior to the effective date of the termination. Such documentation shall be used by the Customer to determine the extent of work completed by Company prior to termination and shall become the property of the Customer.

If after completion and acceptance of the Energy Audit, the Customer does not enter into a GES contract with the Company within ____ days (60 days is recommended) after written acceptance of the Energy Audit, the Customer agrees to reimburse the Company for the cost of the Energy Audit as detailed herein. Termination under this subsection B (iii) shall be effective upon Company's receipt of written notification from the Customer. The Energy Audit and Report will become the property of the Customer.

It is clearly understood by both parties hereto that, if the Parties successfully negotiate and execute an Energy Services Agreement, no payment shall be due for the Energy Audit or Report under the terms of this Agreement. This Agreement shall automatically terminate upon the execution of a GES contract by Company and the Customer for an energy performance contracting project at the Facility. It is further understood that provisions for payment for the Energy Audit shall be incorporated into the GES contract.
ARTICLE 5: STANDARD TERMS AND CONDITIONS

SECTION 1. Agreement Term

The Agreement term shall commence on the date the Agreement is executed by the Customer and end on ______________, unless earlier terminated pursuant to the provisions of Article 4 hereof. Notwithstanding, Company shall adhere to the deadlines set forth in Article 1 regarding the completion and submittal of the list of ECMs and the Report.

SECTION 2. Materials, Equipment and Supplies

The Company shall provide or cause to be provided all facilities, materials, equipment and supplies necessary to perform the Energy Audit and prepare the Report.

SECTION 3. Patent and Copyright Responsibility

The Company agrees that any material or design specified by the Company or supplied by the Company pursuant to this Agreement shall not knowingly infringe any patent or copyright, and the Company shall be solely responsible for securing any necessary licenses required for patented or copyrighted material utilized by the Company in the performance of the Energy Audit and preparation of the Report.

SECTION 4. Customer Access to Records

The Customer shall have the right, throughout the term of this Agreement and for a minimum of ____ years following completion of the Agreement, to inspect, audit and obtain copies of all books, records and supporting documents which Company is required to maintain according to the terms of this Agreement.

SECTION 5. Personnel

All personnel necessary for the effective performance of the Energy Audit shall be employed by Company and its designated subcontractors, shall be qualified to perform the services required under this Agreement, and shall in all respects be subject to the rules and regulations of Company governing staff members and employees. Neither Company, its designated subcontractors, nor its personnel shall be considered to be agents or employees of the Customer.

SECTION 6. Compliance with Applicable Law

In performance of its obligations pursuant to this Agreement, Company shall comply with all applicable provisions of federal, state and local law. All limits or standards set forth in this Agreement to be observed in the performance required under this Agreement are minimum requirements, and shall not affect the application of more restrictive federal, state or local standards applied to the performance of the Agreement.
SECTION 7. Waivers

No right of either party hereto shall be deemed to have been waived by non-exercise thereof, or otherwise, unless such waiver is reduced to writing and executed by the party entitled to exercise such right.

SECTION 8. Assignment

This Agreement may not be assigned by the Company without the prior written consent of the Customer.

SECTION 9. Federal Taxpayer Identification Number and Legal Status Disclosure

Under penalty of perjury, the Company certifies that __-_______ is the Company’s correct Federal Taxpayer Identification Number and that the Company is doing business as a Corporation.

SECTION 10. Governing Law

This Agreement shall be governed by and construed only in accordance with the laws of the State of Hawaii.

SECTION 11. Agreement

The following documents are incorporated in, and made a part of, this Agreement:

Attachment A - Facility’s Recommended ECMs (Optional)
Attachment B – ESCO Cost Proposal and Project Cash Flow Analysis
(Note: Customer should include all required policy provisions which may include the following:)
Attachment I - Drug Free Workplace Provisions
Attachment II - Equal Employment Opportunity Clause
Attachment III - Certification of Capacity to Contract
Attachment IV- Americans with Disabilities Act
Attachment V- Certifications

SECTION 12. Project Management

All necessary and ordinary communications, submittals, approvals, requests and notices related to Project work shall be issued or received by:

For Customer: For Company:

SECTION 13. Amendments

This Agreement and Attachments referenced in Section 11 herein constitute the entire Agreement between the Parties. No amendment hereof shall be effective until and unless reduced to writing and executed by the Parties.
ARTICLE 6: EXECUTION

IN WITNESS WHEREOF, the parties have executed this Agreement this _____ day of ________________, 20__.

CUSTOMER ____________________________ COMPANY ________________________________
BY: ________________________________ BY: ________________________________
TITLE: ______________________________ TITLE: ______________________________
BY: ________________________________ BY: ________________________________
TITLE: ______________________________ TITLE: ______________________________
BY: ________________________________ BY: ________________________________
## ESCO’s Proposed Project Costs and Cash Flow Analysis

### State of Hawaii Energy Performance Contracting Project

<table>
<thead>
<tr>
<th>Fee Category</th>
<th>Fees[^](Dollar ($) Value)</th>
<th>Percentage of Hard Costs</th>
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<td>Estimated Value of Hard Costs[^2]</td>
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<td>Project Service Fees</td>
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<td>Investment Grade Energy Audit</td>
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<td>Design Engineering Fees</td>
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<td>Construction Management</td>
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<td>System Commissioning</td>
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<td>Initial Training Fees</td>
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<td>Contingency Costs</td>
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<td>TOTAL FINANCED PROJECT COSTS:</td>
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### PROPOSED ANNUAL SERVICE FEES

<table>
<thead>
<tr>
<th>First Year Annual Service Fees</th>
<th>Fees[^1] (Dollar ($) Value)</th>
<th>Percentage of Hard Costs</th>
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<td>Measurement and Verification</td>
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<td>ENERGY STAR™ Services</td>
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<td>On-going Training Services</td>
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<td>Verification Reports</td>
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<td>TOTAL FIRST YEAR ANNUAL SERVICES</td>
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### NOTES:

1. Fees should include all mark-ups, overhead, and profit. Figures stated as a range will not be accepted.

2. The total value of Hard Costs is defined in accordance with standard AIA definitions that include: Labor Costs, Subcontractor Costs, Cost of Materials and Equipment, Temporary Facilities and Related Items, and Miscellaneous Costs such as Permits, Bonds Taxes, Insurance, Mark-ups, Overhead and Profit, etc.

ESCO’s proposed interest rate available at the time of submission:

Financial Institution:

Contact person:
ATTACHMENT A
ESCO’s PROPOSED ANNUAL CASH FLOW ANALYSIS

For the purposes of preparing the Preliminary Cost Proposal and Preliminary Cash Flow Analysis, a 20-year contract term and interest rate of ____% must be used.

- Financed Project Costs: ________
- Escalation Rate by Utility/Fuel (To be furnished by Agency)
- Finance Term: 20 years
- Annual Interest Rate: ________
- Electric: ________
- Water: ________
- Construction Months: ________
- Other (specify): ________
- Annual Payment ________
- Principal ________
- Interest ________
- Escalation Rate for Annual Fees: _____

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<tr>
<th>Year</th>
<th>Electric Cost Savings</th>
<th>Water Cost Savings</th>
<th>Other Please Specify</th>
<th>Operation Cost Savings</th>
<th>Total Cost Savings</th>
<th>Maintenance Monitoring, M&amp;V, &amp; Training Fees</th>
<th>Guaranteed Cost Savings</th>
<th>Financing Payment</th>
<th>Net Savings</th>
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**ATTACHMENT B -- FACILITIES RECOMMENDED ECM’S**
(Optional)
APPENDIX H

STATE OF HAWAII

GUARANTEED ENERGY SAVINGS CONTRACT

This Guaranteed Energy Savings Agreement (GESA), dated as of ______________, 201__, by and between the Department of Public Safety (CUSTOMER), State of Hawaii with primary offices located at 919 Ala Moana Boulevard, Room 400, Honolulu, Hawaii 96813 and the Department of Accounting and General Services (AGENT), State of Hawaii, with primary offices located at 1151 Punchbowl Street, Room 426, Honolulu, Hawaii 96813, (jointly known as STATE) and NORESCO LLC with primary offices located at One Research Drive, Suite 400C, Westborough, MA 01581, (COMPANY).

Recitals

WHEREAS, the STATE is authorized to enter into this Agreement as provided for in §36-41, State of Hawaii, Hawaii Revised Statutes;

WHEREAS, the AGENT, on behalf of the CUSTOMER issued an Invitation for Proposals to identify a qualified Energy Service Company to provide energy conservation measures (ECMs), consisting of services, systems and facilities designed to reduce energy consumption and operating costs for the following facilities which are managed and operated by the CUSTOMER:

(List facilities)

WHEREAS, as a result of its competitive procurement process, the AGENT and the CUSTOMER has selected the COMPANY as a qualified provider to provide energy performance contracting services herein afterwards called SERVICES, which will result in decreased energy consumption and costs, and which may include but are not limited to the following: energy use analyses, the design and delivery of ECMs which consist of systems and devices to be installed and maintained on the Premises, guaranteed energy savings, the training of designated CUSTOMER employees, and the maintenance and monitoring of the ECMs, as authorized by the CUSTOMER and as provided herein, and measurement, verification and reporting of energy savings;

WHEREAS, under separate agreement with the AGENT, on behalf of the CUSTOMER, the COMPANY has performed a comprehensive Investment Grade Audit (IGA) and has prepared an Investment Grade Audit and Report that has been approved and accepted by the STATE as evidenced by the Investment Grade Audit and Report dated November 12, 2010 and the
STATE’s Acceptance Certification as set forth in Exhibit II (i), which has been signed by the AGENT, with the CUSTOMER’s concurrence;

WHEREAS, the COMPANY has agreed to guarantee a level of energy savings to be achieved as the result of the professional services to be provided under this Agreement;

WHEREAS, the STATE has split responsibilities for this Agreement between the Department of Public Safety (CUSTOMER) and the Department of Accounting and General Services (AGENT), the State of Hawaii agencies involved have respectively agreed to accept and execute the responsibilities as outlined in this Agreement.

WHEREAS, the STATE objectives set for the energy savings performance contracting program are to: Increase energy efficiency and building performance with the goal of reducing energy usage and demand; to accelerate reducing life cycle cost of operating the buildings including maintenance cost, equipment services life, water use and solid waste generation; and to address the deferred repair and maintenance backlog of projects without CIP funds.

WHEREAS, the project supports the Governor’s energy initiatives to: Reduce Hawaii’s dependency on imported fossil fuels and associated greenhouse gas emissions; Use Energy Savings Performance Contracting as the delivery method for timely implementation of conservation and efficiency measures; Governor’s agreement with U.S. Department of Energy on Hawaii’s Clean Energy Initiative; and 70% Clean Energy by 2030 (40% renewable, 30% efficiency).

[NOTE: Should also include the following statements somewhere within the RECITALS:

WHEREAS, all approved energy conservation measures (ECMs) under this Agreement will be implemented by the COMPANY for a maximum project development cost not to exceed $XXX, in accordance with the final IGA document November 12, 2010 and Schedule C (Compensation to COMPANY) of this Agreement.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, and intending to be legally bound hereby, the STATE (AGENT and CUSTOMER) and the COMPANY hereby covenant and agree as follows:

Article 1: The COMPANY’s Rights and Responsibilities

1.1 Independent Company Status

The COMPANY is an independent company and in providing its SERVICES under this Agreement, shall not represent to any third party that its authority is greater than that granted to it under the terms of this Agreement.

1.2 Legal Responsibility

The COMPANY shall perform or cause to be performed the WORK (as defined under Article 4.1) and all other SERVICES (as referenced in the RECITALS) required by this Agreement. The
COMPANY shall assure that all of the WORK is accomplished in a workmanlike manner and that all SERVICES which require the exercise of professional skills or judgment shall be accomplished by professionals qualified and competent in the applicable discipline and appropriately licensed in the State of Hawaii, if required by law. All PROJECT DOCUMENTS (as described under Article 3.5) that are required to be prepared by the COMPANY shall be in accord with all applicable codes, standards, and regulations and shall be prepared by qualified personnel. Where required by Hawaii law, PROJECT DOCUMENTS shall bear the stamp or seal of engineers licensed in the State of Hawaii. The COMPANY shall remain responsible for all SERVICES performed, whether by the COMPANY or its subcontractors or others on its behalf, throughout the term of this Agreement.

If the COMPANY fails to comply with the foregoing standards, the COMPANY shall perform again, at its own expense, any and all WORK required to be re-performed as a direct or indirect result of such failure. Any review, approval, acceptance or payment for any and all of the COMPANY’s performance by the STATE shall not relieve the COMPANY of its responsibility for the SERVICES performed. This provision in no way limits the STATE’S rights against the COMPANY either under this Agreement in law or in equity.

Prior to execution of this Agreement, the COMPANY shall be responsible for submitting to the AGENT, proof of compliance with State of Hawaii contractual requirements, such as (but not limited to): tax clearance; Certification of Good Standing; and Certification of Compliance.

1.3 Insurance

The COMPANY shall purchase, maintain, and provide evidence of insurance coverage of the types, in the amounts and for the periods specified in Schedule Q (Insurance and Bonds).

On the date described in Article 5.2 hereof, the STATE shall be responsible for providing insurance coverage or self-insurance for the ECMs.

The COMPANY may not commence performance of the WORK or other SERVICES under this Agreement until all required insurance is obtained and evidence of it is received and approved by the AGENT as described in Article 2.1, but the failure of the STATE to obtain such evidence from the COMPANY before permitting the COMPANY to commence the WORK shall not be deemed to be a waiver by the STATE, and the COMPANY shall remain under a continuing obligation to obtain and maintain the required coverage and to supply evidence of coverage in accordance with Schedule Q (Insurance and Bonds).

The COMPANY’s failure to obtain or keep such insurance in force shall constitute an Event of Default under this Agreement within the meaning of Article 11, and in addition to the remedies provided therein, the AGENT reserves the right to stop the WORK until evidence of the requisite coverage is provided. The COMPANY agrees that its subcontractors insurers shall waive their rights of subrogation against the STATE.

The COMPANY shall timely renew the required insurance as necessary to keep such coverage in effect for the periods specified in Schedule Q (Insurance and Bonds) and shall supply the AGENT, not less than thirty (30) days prior to any expiration or renewal dates for such insurance policies, with evidence of all required insurance including updated replacement Certificates of
Insurance and amendatory riders or endorsements that clearly evidence the continuation of all coverage in the same manner, limits of protection, and scope of coverage, as was provided by the Certificates of Insurance, amendatory riders or endorsements originally supplied.

The COMPANY expressly understands and agrees that any insurance protection furnished by the COMPANY hereunder shall in no way limit its responsibility to indemnify, defend and hold harmless the STATE under the provisions of this Agreement.

1.4 Performance and Labor and Material Payment Bonds

The COMPANY shall prior to commencing the WORK deliver to the AGENT a Performance Bond and a Labor and Material Payment Bond securing its obligations to be performed under this Agreement until the Acceptance of the WORK by the AGENT and the CUSTOMER. Each bond shall be in the amount set forth in Schedule Q (Insurance and Bonds) hereof. The Payment and Performance Bonds required hereunder shall expire upon final acceptance of all ECMs required under this Agreement (including any applicable one year warranty period), and shall not secure any energy savings, measurement and verification obligations or maintenance/service obligations, which may be guaranteed by COMPANY under this Agreement.

Working days is defined as Monday to Friday, 7:45 – 4:30 pm that are not Hawaii State holidays or posted State furlough days.

Unless otherwise indicated, any reference to “days” in this Agreement shall refer to calendar days.

1.5 Cooperation with the CUSTOMER’S Consultants

The STATE reserves the right to designate authorized representatives or to retain consultants at its expense, including an Engineer, to act on its behalf with respect to administering the performance required under this Agreement throughout its term. The STATE and its representatives and consultants shall at all times have access to the WORK. The COMPANY agrees to cooperate with any representative of, or consultant retained by, the STATE.

1.6 Joint and Several Liability

Each and every obligation or undertaking herein to be fulfilled or performed by the COMPANY shall be the joint and several obligations of the COMPANY and its successors or assigns.

1.7 Miscellaneous

(A) Other rights and responsibilities of the COMPANY are set forth throughout this Agreement and in the PROJECT DOCUMENTS described in Article 3.5 hereof and are included under other titles, articles, sections and headings for convenience. It is the responsibility of the COMPANY to familiarize itself with all provisions of this Agreement.
and the PROJECT DOCUMENTS in order to understand fully the entirety of its rights and responsibilities hereunder.

(B) The maximum project development cost under this Agreement will include an authorized project contingency allowance (to be not more than 5% of the total project development cost) which can be used to compensate the COMPANY for: unforeseen site conditions; hazardous materials abatement or removal; emergency service repairs; or other project costs authorized by the STATE. All remaining balance in the authorized project contingency allowance under this Agreement will be returned to the STATE on the Commencement Date of the COMPANY performance guarantees.

Article 2: The STATE’S Rights and Responsibilities

2.1 Project Administration

During “design-build” implementation of approved ECMs under this Agreement, the AGENT personnel designated in Article 10.9 shall be the principal point of contact primarily responsible for the administration, coordination and monitoring of WORK by the COMPANY. After acceptance of all completed ECMs by the AGENT and the CUSTOMER, the CUSTOMER personnel designated in Article 10.9 shall be the principal point of contact between the STATE and the COMPANY relative to annual performance guarantees; monitoring and verification issues; and operational and maintenance considerations under this Agreement.

2.2 Responsibilities of the STATE

(A). Tasks to be performed by the AGENT in the administration, coordination, and monitoring of this Agreement include, but are not limited to the following areas during the “design-build” phase and warranty period:

(i) Review and approve required insurance coverage and bonds within ten (10) working days following receipt of such documents by the AGENT to ensure compliance with the terms of this Agreement;

(ii) Review and approve the ECM Submittals required under Article 2.3 hereof within ten days (10) working days after receipt by the AGENT of such ECM submittals to ensure:

(a) That the design and installation of the ECMs is adequately described and illustrated;

(b) That the design and installation of the ECMs is consistent with current and known future capital projects at the Premises as defined in Schedule L (Current and Known Future Capital Projects at the Premises); and
(iii) Review and approve all submittals required under Articles 2.3 and 3.5 herein, in accordance with the timeframes set forth in Schedule K (Construction and Installation Schedule).

(iv) The AGENT will formally in writing designate a STATE liaison (Project Coordinator) who will:

(a) Attend project meetings;

(b) Be the point of contact;

(c) Have the authority to approve any material or schedule changes if needed;

(d) Approve the completed ECM for Substantial Completion and Final Completion

(e) Process COMPANY progress payments in accordance with Schedule C (Compensation to COMPANY);

(f) Respond to COMPANY Requests for Information (RFI).

(B). Tasks to be performed by the CUSTOMER under this Agreement include, but are not limited to the following areas:

(i) CUSTOMER will provide the COMPANY office space for three (3) people in any of the buildings. The space will contain desks, reference table, and electrical outlets.

(ii) CUSTOMER will provide any and all escorts required for activities associated with this Agreement to support the scheduled completion dates.

(iii) CUSTOMER will provide two (2) parking places reserved for the COMPANY.

(iv) CUSTOMER will provide lay down areas for storage of equipment and storage of installation materials,

(v) CUSTOMER will adhere to Schedule H - CUSTOMER Maintenance Responsibilities.

2.3 ECMs Submittals

(A). The COMPANY will provide ECM submittals containing the following in reference information from Sections of the Investment Grade Audit and Report (IGA document) November 12, 2010, which are also found in the Schedules of this Agreement:

(i) Existing Site Conditions (see Schedule D)

(ii) Current Operating Procedures (see Schedule D)

(iii) Proposed Modifications (see Schedules A, B, and I)

(iv) Equipment Life Expectancy (see Schedules A, B, and I)

(v) Operational Changes (see Schedules A, B, and I)

(vi) Analysis Methodology & Supporting Calculations (see Schedule E)

(vii) Assumptions / Standards of Operations (see Schedule E)

(viii) Cut Sheets (see Schedule A)

(ix) Environmental Benefits (see Schedule B)
(B). After the STATE has approved Exhibit II (i) Certification of Acceptance – Energy Audit Report (signed by the AGENT, with CUSTOMER concurrence), the COMPANY shall develop the detail design for the ECMs and provide sufficient detail to allow the STATE to complete the reviews described in Article 2.2, and shall include:

(i) Date and revision dates
(ii) Project Number and Title
(iii) Names, as applicable, of the STATE representatives, subcontractor, sub-subcontractor, supplier, manufacturer or detailer
(iv) Identification of product or material
(v) Relation to adjacent structure or material
(vi) Field Dimensions, clearly identified
(vii) Specification page and number
(viii) Specified standards, such as ASTM or ANSI
(ix) Identification of previously approved deviation from PROJECT DOCUMENTS
(x) Stamp or seal of the preparer of the ECMs submittal, and the COMPANY’S certification that it has reviewed and approved the submittal as to its accuracy and compliance with the provisions of this Agreement
(xi) Drawings, plans, specifications, shop drawings, product data, and where appropriate or reasonably required, product samples

(C). Within ten (10) working days of receipt of the submittals, the STATE shall complete its review of the submittals and provide electronic approval of the submittal or if the submittal has not been approved, written explanation as to the reason therefore. The COMPANY shall submit a revised submittal within ten (10) working days to the AGENT for review and approval and the STATE shall have five (5) working days from receipt thereof to complete its review of the revised submittal. The COMPANY shall be responsible for any delays caused by rejection of incomplete or inadequate submittals. The COMPANY may not commence any of the WORK that requires the submittals without written approval from the AGENT.

(D). The COMPANY responsibility for errors, omissions, deviation from existing conditions, or deviation from the PROJECT DOCUMENTS in submittals is not relieved by the STATE’S review and approval thereof.

2.4 Drawings, Specifications and Surveys Provided by the STATE (also known as Reference Documents)

(A) Within five (5) working days after the request, the STATE will make available for review by the COMPANY, any of its working drawings and specifications concerning the Premises which are available to the STATE and which are reasonably necessary for the execution of the WORK.
(B) Within five (5) working days after the request, the STATE shall provide the COMPANY with such surveys as it may have describing the physical characteristics, presence of hazardous materials, legal limitations, and utility locations for the site of the WORK.

(C) Within five (5) working days after the request, the STATE will make available for review by the COMPANY such working drawings, specifications, surveys and "As-Built" drawings concerning the Premises which are available and which relate to work being performed by other Companies at the Premises;

(D) All drawings, specifications, surveys and copies thereof furnished by the CUSTOMER are and shall remain STATE property, but COMPANY shall be granted a license to use such STATE property. The STATE shall hold the COMPANY harmless from any suit or proceeding which may be brought by a third party against the COMPANY or any of its subcontractors for the alleged infringement of any United States or foreign patents, copyrights, or trademarks, or for a misappropriation of trade secrets arising out of the use of the STATE provided property in the performance of this Agreement. All "As-Built" drawings prepared under this Agreement, are and shall remain STATE property. With the exception of one set of such drawings, specifications, surveys and "As-Built" drawings for each party hereto, such drawings, specifications, surveys, and "As-Built" drawings are to be returned or suitably accounted for to the STATE on request at the completion of the WORK.

2.5 Ownership, Dissemination and Publication of Documents

The drawings, specifications, reports, renderings, models, electronic media, and all such other documents to be prepared and furnished by the COMPANY pursuant to this Agreement, shall be the property of the STATE upon full payment in accordance with Article 6.1 and Schedule C (Compensation to COMPANY), and the STATE shall have a license to use any copyrighted material contained in such documents. All documents listed above may be issued for informational purposes by the STATE without additional compensation to the COMPANY.

2.6 Interpretation of Agreement

The AGENT shall have the authority to determine questions of fact that arise in relation to the interpretation of this Agreement and the COMPANY’s performance hereunder. However, such determinations are subject to the Alternative Dispute Resolution procedures as described in Schedule P (Alternative Dispute Resolution). Unless the Parties agree otherwise, or the WORK cannot be continued without a resolution of the question of fact, such determinations and Alternative Dispute Resolution procedures shall not be cause for delay of the WORK. The COMPANY shall proceed diligently with the performance of the WORK unaffected by the dispute and in accordance with the AGENT’s decision whether or not the COMPANY or anyone else has an active claim pending. Continuation of the WORK shall not be construed as a waiver of any rights accruing to the COMPANY.
Article 3: The Energy Conservation Project (The “PROJECT’’)

3.1 PROJECT Defined

The COMPANY shall design, procure, fabricate, and install the energy conservation measures (ECMs) specified in Schedule A (Equipment to be Installed by COMPANY) and provide training, commissioning, maintenance and monitoring, and all other SERVICES specified in this Agreement and the PROJECT DOCUMENTS set forth in Article 3.5 at the Premises described in Schedule D (Description of the Premises).

3.2 Investment Grade Audit and Report (IGA Document)

The Investment Grade Audit (IGA) and Report prepared by the COMPANY and accepted by the STATE contains specific recommendations and documentation concerning the energy conservation measures (ECMs), systems, and SERVICES to be provided at the Premises and is incorporated herein by reference.

3.3 Annual Energy Savings Guaranty

The COMPANY has formulated and guaranteed the level of energy and operating cost savings as provided for in Schedule B (Energy Savings Guaranty), which will be achieved each year as a result of the performance by COMPANY of the SERVICES specified in this Agreement utilizing the Methods of Savings Measurement and Verification set forth in Schedule N (Methods of Savings Measurement Verification).

3.4 Annual Review and Reimbursement

Energy savings achieved at the Premises shall be reported, reconciled and verified pursuant to the provisions of Schedule N (Methods of Savings Measurement Verification). If said annual review, reconciliation, and verification of energy savings discloses that the COMPANY has failed to achieve the annual guaranteed energy savings and operating cost savings set forth in Schedule B (Energy Savings Guaranty), the COMPANY will pay the STATE or the STATE’S designee, as may be directed by the STATE, the difference between the annual amount guaranteed and the amount of actual annual energy and operating cost savings achieved at the Premises. The COMPANY shall remit such payments to the STATE within thirty (30) days of written demand therefore by the STATE.

No excess annual savings will be credited to satisfy any past savings shortfalls or performance guarantees in future years of the Agreement.

3.5 PROJECT DOCUMENTS

(A) The PROJECT DOCUMENTS include:

(i) The executed Guaranteed Energy Savings Agreement and Schedules
(ii) The final Investment Grade Audit and Report dated ?????, which include COMPANY ECM Submittals specified in Article 2.3.

(iii) State of Hawaii, Proof of Compliance Documents (see Article 1.2)

(iv) Certificates of Insurance (see Article 1.3)

(v) Executed Performance Bond and Labor and Material Payment Bond (see Article 1.4)

(vi) Drawings, Specifications and Surveys furnished by the STATE (also known as Reference Documents) in accordance with Article 2.4.

(vii) “Design-build” documents developed by the COMPANY for implementation of approved ECMs under this Agreement (which comply with all applicable codes, regulations, etc, and have the necessary professional stamps, certifications, permit approvals, etc)

(B) The Project Documents also include the following Schedules that are incorporated herein and made a part of this Agreement when approved by the AGENT, CUSTOMER, and COMPANY:

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<th>Description</th>
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Exhibit I | Performance Bond/Construction Bond (see Article 1.4)
Exhibit II (i) | Certification of Acceptance--Energy Audit Report
Exhibit II (ii) | Certification of Acceptance of Substantial Completion—Installed Equipment
Exhibit II (iii) | Final Acceptance Certificate for Energy Conservation Project
Exhibit III | Change Order
Exhibit IV | Notice to Proceed
(C) Where there is a conflict or discrepancy between the PROJECT DOCUMENTS, the order of precedence shall be as follows:

1. Any approved change orders or amendments under this Agreement
2. STATE approved ECM Submittals under Article 2.3(A) of this Agreement
3. Schedules of this Agreement
4. The base Guaranteed Energy Savings Agreement (Schedule B and Articles 1-14 in entirety)
5. Investment Grade Audit and Report dated November 12, 2010

3.5.1 Reference Documents Furnished by the STATE; No Warranty

Pursuant to Article 2.4(C), the STATE shall make available for the COMPANY’S review and inspection, such Reference Documents as it may possess which relate to any work being performed by other Companies at the Premises under separate contracts with the STATE unrelated to the COMPANY’s performance of the WORK under this Agreement, including but not limited to drawings, specifications, surveys and “As-Built” drawings. The furnishing of such Reference Documents by the STATE shall not constitute a warranty as to the accuracy or completeness of such Reference Documents.

3.5.2 Review of Reference Documents; Notification to the STATE

The COMPANY shall carefully review all Reference Documents, including all addenda, whether prepared by the COMPANY, its subcontractors or furnished by the STATE for errors, inconsistencies, or omissions relative to the performance of the WORK. Upon completion of its review of the Reference Documents, and prior to commencing the WORK, the COMPANY shall provide written notice to the AGENT that (i) there are no inconsistencies in the Reference Documents pertaining to the performance of the WORK at the Premises; or, (ii) specifying the nature of any conflicts or inconsistencies noted from the COMPANY’S review of the Reference Documents. All WORK to be performed under this Agreement by the COMPANY or its subcontractors, which the PROJECT DOCUMENTS indicate is will be in conflict with the Project Reference Documents or the work of other Companies performing on the Premises, shall be brought to the attention of the STATE before the WORK is commenced.

3.5.3 Correction of Conflicting Work

In the event that the COMPANY fails to properly prepare or review PROJECT DOCUMENTS or commences the WORK without providing notice to the AGENT of any conflict it discovers in the Reference Documents, the COMPANY shall, prior to Final Project Acceptance and upon written direction from the AGENT, remove all such WORK or portion thereof so conflicting, and rebuild it as directed at no additional cost to the STATE, provided that the Reference Documents furnished by the STATE have put the COMPANY on reasonable notice that an inconsistency, error, conflict, or omission existed.
Article 4: Implementation of the Energy Conservation Project (the “WORK”)

4.1 Description of the WORK

(A) Under this Agreement, the WORK includes: Design, procurement, fabrication, installation and commissioning of the ECMs specified in Schedule A (Equipment to be Installed by COMPANY); ECMs Submittals under Article 2.3; any training services described in Schedule J (COMPANY Training Responsibilities), which are integral to the operation of the ECMs; maintenance services to be provided by effective date under Schedule G (COMPANY Maintenance Responsibilities); and measurements to be taken during construction in Schedule N (Methods of Savings Measurement and Verification).

(B) If needed/as applicable during the “design-build” phase, the WORK could also include: unforeseen site conditions; hazardous materials mitigation; authorized emergency repair services, etc which will be handled on a “case-by-case” basis (subject to AGENT review and approval of COMPANY scope and cost proposal breakdown) using project funding in an approved project contingency allowance.

(C) The WORK does not include any Post-Acceptance SERVICES detailed in: Schedule J (Company Training Responsibilities); Schedule G (Company Maintenance Responsibilities); and Schedule N (Methods of Savings Measurement and Verification).

4.2 Performance of the WORK

Construction and equipment installation shall proceed in accordance with the provisions contained in Attachment A, Construction Process Provisions and the project installation schedule approved by AGENT and attached hereto as Schedule K (Construction and Installation Schedule).

4.3 Systems Startup/Commissioning

The COMPANY shall conduct a thorough and systematic performance test of each element and total system of the installed ECMs in accordance with Schedule O (Systems Startup and Commissioning of ECMs). The COMPANY shall provide advance written notice of at least ten (10) working days to the AGENT of the scheduled test(s). The STATE shall have the right to designate representatives to be present at any or all such tests including representatives of the manufacturers of the ECMs. The COMPANY shall demonstrate that all ECMs installed comply with the requirements of the PROJECT DOCUMENTS. The COMPANY shall test all components and systems of the installed ECMs. The COMPANY, or its subcontractor(s), shall correct or adjust all deficiencies in operation of the ECMs.

Article 5: Dates and Term; Interim Period; Fiscal Funding

5.1 Execution Date and Notice to Proceed
(A) Execution Date ("Execution Date") is the date this Agreement is fully executed. The STATE hereby represents and warrants to the COMPANY that the STATE has requested approval to secure project funding and intends to enter into an equipment lease-purchase agreement ("LEASE") with a third party lessor or pursue other project financing arrangements.

(B) Notice to Proceed ("Notice to Proceed") is the date when the AGENT submits to the COMPANY Exhibit IV – Notice to Proceed with WORK. Upon issuance of the Notice to Proceed to the COMPANY, the STATE hereby represents and warrants to COMPANY that the STATE has project funding allocated and intends to enter into a LEASE with a third party lessor.

(i) CUSTOMER’s obligation to make payments pursuant to the LEASE will commence on the date that all ECMs under this Agreement are installed and accepted by the STATE.

(ii) CUSTOMER acknowledges and understands that the amount of the LEASE payments will be subject to current market conditions at the time of final credit approval and that the effectiveness of the LEASE will be subject to final credit approval.

(iii) CUSTOMER further acknowledges that its responsibility for the payments described in this Agreement are in no way contingent on the effectiveness of, or payments made under or pursuant to, the LEASE.

(C) During “design-build” implementation of approved ECMs under this Agreement, the AGENT will process progress payments to the COMPANY, in accordance with Schedule C (Compensation to COMPANY) and Article 6.1, using project funding that are deposited into an escrow account for that purpose.

5.2 Substantial Completion

Substantial Completion ("Substantial Completion") means the date when WORK is sufficiently complete on a per ECM per Building basis in accordance with the Agreement so that the CUSTOMER can occupy or utilize the space and/or equipment for its intended use. The date of Substantial Completion shall be documented by Exhibit II (ii) Certification of Acceptance of Substantial Completion—Installed Equipment for WORK on a per ECM per Building basis which is signed by the AGENT, the CUSTOMER, and the COMPANY. The warranty period for the systems and equipment attached thereto shall begin on this Substantial Completion date on a per ECM per Building basis.

5.3 Commencement Date of Savings Guarantee

(A) The Commencement Date shall be the first day of the month after the month in which all of the Schedules are in final form and accepted by the CUSTOMER and the COMPANY shall have delivered a written Notice to the CUSTOMER that (i) it has completed the installation and commissioning and commenced operating all of the energy conservation measures (ECMs) specified in Schedule A (Equipment to be Installed by COMPANY); (ii) no Event of Default under Article 11 exists; and, (iii) the
Guaranteed Energy Savings Agreement (GESA) set forth in Schedule B (Energy Savings Guaranty) is in full force and effect; and the AGENT has inspected and accepted said installation and operation as evidenced by the Final Acceptance Certificate for this Energy Conservation Project as set forth in Exhibit II (iii).

(B) Compensation payments due to COMPANY for annual project monitoring, savings measurement and verification, reporting and maintenance services under this Agreement as set forth in Schedule C (Compensation to COMPANY) shall begin no earlier than the date of the Final Project Acceptance, pursuant to the STATE approved Exhibit II (iii) Final Acceptance Certificate for this Energy Conservation Project.

5.4 Term of Agreement; Interim Period

(A) Subject to the following sentence, the term of this Agreement shall be twenty (20) years measured beginning with the Commencement Date. Nonetheless, the Agreement shall be effective and binding upon the parties immediately upon its execution ("Execution Date"), and the period running from Notice to Proceed until the Commencement Date shall be known as the "Interim Period." All energy savings achieved during the Interim Period will be fully credited to the CUSTOMER.

(B) Term of the SERVICES to be provided under Schedule G (COMPANY Maintenance Responsibilities) begins at the Notice to Proceed for one year with four extensions. Each year the CUSTOMER and the COMPANY will update the Schedule G (COMPANY Maintenance Responsibilities) compensation based on increases in the Consumer Price Index changes, Hawaii prevailing wages increases, and increases in taxes as outlined in Schedule C (Compensation of to COMPANY). Additional extensions, if any, will be amendments to this Agreement (with AGENT concurrence).

(C) The COMPANY and CUSTOMER (with AGENT concurrence) will also have the option to amend this Agreement for additions of equipment at the Premises not currently under Schedule G (COMPANY Maintenance Responsibilities).

5.5 Non-appropriation of Funds

In accordance with §36-41, State of Hawaii, Hawaii Revised Statutes, the continuation of this Agreement is contingent upon the appropriation of funds by the State Legislature or budget authority to fulfill the requirements of the Agreement. If that authority fails to appropriate sufficient funds to provide for the continuation of the Agreement, the Agreement shall terminate on the last day of the fiscal year for which allocations were made. The termination shall be without penalty or expense to the STATE of any kind whatsoever, except as to the portions of payments for which funds were appropriated and budgeted or are otherwise available.

5.6 Non-substitution

In the event of a termination of this Agreement due to the non-appropriation of funds or in the event this Agreement is terminated by COMPANY due to a default by the STATE, the STATE
agrees, to the extent permitted by Hawaii law, not to purchase, lease, rent, borrow, seek appropriations for, acquire, or otherwise receive the benefits of any of the same and unique SERVICES performed by COMPANY under the terms of this Agreement for a period of three-hundred sixty five (365) days following such default by the STATE, or termination of this Agreement due to non-appropriations.

Article 6: COMPANY Compensation

6.1 COMPANY Compensation for the WORK

Payments to the COMPANY for the WORK shall be made by the AGENT substantially in the amounts and in accordance with Schedule C (Compensation to COMPANY) hereto. The amount specified as Compensation for the WORK is inclusive of all costs and fees to be paid for the WORK pursuant to this Agreement including any maintenance, monitoring, savings measurement, verification and reporting, and training services provided prior to acceptance of the PROJECT by the AGENT and as provided for in Schedule G (COMPANY Maintenance Responsibilities), Schedule J (COMPANY Training Responsibilities), Schedule N (Methods of Savings Measurement and Verification). The actual monthly billing will be based on the progress of the WORK and document(s) in the COMPANY’S monthly invoice to the AGENT.

6.2 Maintenance, Monitoring, Savings Measurement and Verification and any Post-Acceptance Training Fees

Payment to the COMPANY for Post-Acceptance maintenance, monitoring, savings measurement, verification and reporting, and Training services performed after the Commencement Date shall be made by the CUSTOMER pursuant to and in accordance with Schedule C (Compensation to COMPANY).

Article 7: Acceptance

7.1 Acceptance of the WORK

Acceptance of the WORK shall occur on a per ECM per Building basis when the COMPANY’S performance of that portion of the scope of the WORK is complete, in accordance with the PROJECT DOCUMENTS such that the CUSTOMER can utilize the installed ECMs for their intended use and the STATE has inspected and accepted said installation and operation as evidenced by the Certification of Acceptance as set forth in Exhibit II (ii). The COMPANY’S obligations under Article 8.1 ECM Warranties will begin upon Acceptance of the WORK on a per ECM per Building basis.

Final acceptance of all the WORK shall occur when the COMPANY’s performance of the scope for the WORK is complete, in accordance with the PROJECT DOCUMENTS such that the CUSTOMER can utilize the installed ECMs for their intended use and the STATE has inspected
and accepted said installation and operation as evidenced by the Certification of Acceptance as set forth in Exhibit II (iii).

7.2 Required Acceptance Submittals by the COMPANY

The COMPANY shall submit the following documents to the AGENT with its Notice of Final Completion:

(A) All Project Record Documents as described in Article 3.5;

(B) All releases of liens arising out of this Agreement, or receipts in full in lieu thereof, which were not previously delivered, and an affidavit that so far as the COMPANY has knowledge or information, the releases and receipts include all labor and material for which a lien could be filed. The COMPANY shall submit lien waivers, sworn statements, guarantees, full releases, or other evidence reasonably satisfactory to the AGENT that there are no liens, claims, or stop notices pending, filed, or threatened against the STATE, the COMPANY, the WORK or the ECMs whatsoever. The COMPANY may, if any subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the AGENT to indemnify the STATE against any lien. If any lien remains unsatisfied after the COMPANY has received payment due for the WORK, the COMPANY shall refund to the STATE all moneys that the STATE may be compelled to pay in discharging the lien, including all costs and reasonable attorney fees;

(C) Certificates of inspection for all ECMs that require local government inspection;

(D) Final Acceptance Certificate for this Energy Conservation Project.

(E) The COMPANY will be paid all retainage amounts at the completion of and acceptance by the AGENT of final punch list items.

Article 8: The Energy Conservation Measures (ECM)

8.1 ECM Warranties

The COMPANY warrants that all ECMs designed, procured, fabricated, and installed pursuant to this Agreement are new, in good and proper working condition and are of merchantable quality and fit for the particular purposes of enabling the CUSTOMER to reduce energy consumption and annual operating costs. The COMPANY further warrants that the ECMs are protected by appropriate written warranties covering all parts and equipment performance for the periods specified in Schedule R (Warranties). The COMPANY shall deliver to the AGENT for inspection and approval all such written warranties and shall pursue rights and remedies against the manufacturer and each prior seller of the ECMs under the warranties in the event of equipment malfunction, improper or defective function, or defects in parts, workmanship, or performance. The COMPANY shall be responsible for managing all warranty activity during the warranty periods set forth in Schedule R (Warranties) beginning upon Substantial Completion of each ECM on a per ECM per Building basis and shall notify the STATE whenever defects in
equipment, parts or performance occur which give rise to such rights and remedies and those
rights and remedies are exercised by the COMPANY. The cost of any damage, loss or claims by
any person arising out of the use or operation of the ECMs or damage to the ECMs and their
performance, including damage to other property and equipment of the CUSTOMER or the
Premises, due to the COMPANY’s failure to exercise its warranty rights shall be borne solely by
the COMPANY.

All transferable warranties shall be transferred and shall extend to the CUSTOMER. The
warranties shall specify that only new, and not reconditioned, parts may be used and installed
when repair is necessitated by malfunction. The COMPANY warrants that all workmanship,
materials, and equipment used in conjunction with the ECMs will be in conformance with the
PROJECT DOCUMENTS and free from defects for the period, commencing with the date of the
Substantial Completion of each ECM on a per ECM per Building basis and continuing for the
period set forth in Schedule R (Warranties).

8.2 Correction of Warranted Work

(A) Commencing with the date of Substantial Completion of each ECM on a per ECM per
Building basis and continuing for the warranty periods set forth in Schedule R
(Warranties) for each ECM, or within such longer period of time as may be prescribed
by law or by the terms of any applicable special warranty required by the PROJECT
DOCUMENTS, the COMPANY shall correct or replace all faulty, defective or
nonconforming WORK in accordance with the timeframes set forth in Article 8.2(C).
After receipt of written notice from the STATE to correct such fault or defect, whether it
was observed before or after acceptance of the WORK the COMPANY will correct the
WORK unless the STATE has given the COMPANY a written waiver of the specific fault
or defect. Notice may be given by telephone in the event of an emergency situation.
The COMPANY shall bear all costs of replacing or correcting such faulty, defective or
non-conforming WORK.

(B) The COMPANY shall, at its own expense, remove from the Premises all portions of
defective and non-conforming WORK that COMPANY is obligated to replace or correct
under Article 8.2 unless removal has been waived in writing by the STATE.

(C) If the COMPANY fails to begin to correct faulty, defective or non-conforming WORK as
provided under Article 8.2 within twenty-four (24) hours after notice, in the case of
emergency conditions, or within five (5) working days in other cases after the
COMPANY’s receipt of written notice from the AGENT of such faulty, defective or non-
conforming WORK, the AGENT may correct such work at the COMPANY’s expense
including costs incurred due to the removal of faulty, defective or non-conforming and
removal and storage of equipment or materials left at the Premises by the COMPANY.
The COMPANY shall identify to the AGENT the expected repair time and make needed
corrections within the stated time. The COMPANY shall make its best effort to expedite
repairs that are considered emergency conditions.

(D) If the COMPANY does not pay the cost incurred by the AGENT for such repair, removal
and storage within ten (10) days of written demand therefore, the STATE may upon ten
(10) additional days’ written notice, sell any material and equipment not removed by
the COMPANY at auction or at private sale and shall account for the net proceeds thereof, after deducting all the costs that should have been borne by the COMPANY. If such proceeds of sale do not cover all costs that the COMPANY should have borne, the difference shall be charged to the COMPANY. If the payments then or thereafter due the COMPANY are not sufficient to cover such amount, the COMPANY shall pay the difference to the STATE.

(E) The COMPANY shall bear the cost of repairing or replacing all work of other Companies destroyed or damaged by such removal or correction.

(F) Nothing contained in Article 8.2 shall be construed to establish a period of limitation with respect to any other obligation that the COMPANY might have under the PROJECT DOCUMENTS. The establishment of the time period set forth in Article 8.2(A) above, relates only to the specific obligation of the COMPANY to correct the WORK and has no relationship to the time within which its obligation to comply with the PROJECT DOCUMENTS may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the COMPANY’S liability with respect to its obligations other than to specifically correct the WORK. Notwithstanding the provisions of Article 8.2, the COMPANY shall, on demand made by the STATE, at any time within the ten (10) year period following Acceptance, promptly repair or replace all defective or non-conforming work resulting from fraudulent misrepresentation, fraudulent concealment or gross negligence by the COMPANY or its subcontractors in the performance of the WORK.

8.3 Location and Access

The CUSTOMER shall provide sufficient space at the Premises for the installation and operation of the ECMs for the term of this Agreement, including access as outlined in Article 2.2(B) Responsibilities of the CUSTOMER to allow the COMPANY to perform required maintenance, monitoring, and training services. The CUSTOMER shall provide access to the Premises for the COMPANY and its employees or subcontractors to install, adjust, inspect, maintain, and repair the ECMs in accordance with the terms of this Agreement during regular business hours, or such other reasonable hours as may be requested by the COMPANY and acceptable to the CUSTOMER. The COMPANY’s access to correct any emergency condition shall not be unreasonably restricted by the CUSTOMER.

8.4 Company Maintenance and Monitoring Responsibilities for ECMs

The COMPANY shall be responsible for providing the maintenance, monitoring, repairs, and adjustments to the ECMs as set forth in Schedule G (COMPANY Maintenance Responsibilities). All replacements of and alterations or additions to the ECMs shall become part of the ECMs and shall become the property of the CUSTOMER. Any replacements of and alterations or additions made by the COMPANY to the CUSTOMER’S pre-existing equipment, or equipment acquired by the CUSTOMER during the term of this Agreement, shall become part of said equipment and be owned by the CUSTOMER. The COMPANY shall be compensated for such maintenance and monitoring services pursuant to Schedule C (Compensation to COMPANY) hereof. In the event of the COMPANY’S failure to provide maintenance, service, repairs and adjustments to the
ECMs, as provided in Schedule G (COMPANY Maintenance Responsibilities) or if an Event of Default exists pursuant to Article 11, the CUSTOMER may withhold fees due to the COMPANY for such SERVICES until such repairs or adjustments are completed or such Event of Default is cured. The CUSTOMER shall notify the COMPANY in writing when any payments are so withheld. The withholding of fees by the CUSTOMER under Article 8.4 shall not release the COMPANY from its obligation to provide the Guaranteed Energy Savings (GES) pursuant to Article 3.3 and the Schedule B (Energy Savings Guaranty) hereof.

8.5 CUSTOMER Operating and ECMs Maintenance Responsibilities

The CUSTOMER shall be responsible for providing the maintenance, monitoring, service, repairs and adjustments to the ECMs as set forth in Schedule H (CUSTOMER Maintenance Responsibilities), whereby the CUSTOMER shall not move, modify, remove, adjust, alter or change in any material way the ECMs, or any part thereof, during the term of this Agreement, without prior written direction or approval of the COMPANY (such approval not to be unreasonably withheld, conditioned or denied), except in the event of an occurrence reasonably deemed by the CUSTOMER or the COMPANY to constitute a bona fide emergency. The CUSTOMER acknowledges that substantial deviations from the operating parameters set forth in the Schedules of this Agreement may constitute a Material Change in accordance with Article 9.3 hereof. In addition to the responsibilities set forth in Schedule H (CUSTOMER Maintenance Responsibilities), the CUSTOMER shall use its best efforts to maintain the Premises in good repair and to protect and preserve the ECMs in good repair and condition in accordance with applicable manufacturers’ recommendations which shall be provided to the CUSTOMER by the COMPANY and to maintain the operating conditions of all mechanical systems and energy related systems located at the Premises. The COMPANY shall notify the CUSTOMER of any improper maintenance or repair as soon as COMPANY has notice thereof. The CUSTOMER acknowledges that improper repairs or maintenance of the ECMs may constitute a Material Change in accordance with Article 9.3, and that the provisions of Article 9.5 may be applicable.

8.6 Training by the COMPANY

The COMPANY shall conduct the training program described in Schedule J (COMPANY Training Responsibilities) hereto.

8.7 ECMs Upgrades; Alterations

The COMPANY shall have the right, at all times during the term of this Agreement, subject to a written approval signed by the AGENT and the CUSTOMER, to modify or replace any of the ECMs or install additional ECMs and to revise any procedures for the operation of the ECMs or implement other procedures at the Premises provided that: (i) such actions by the COMPANY do not result in modifying the standards of comfort and service set forth in Schedule I (ECMs Operating Parameters) without the express written approval of the CUSTOMER; (ii) such modifications or additions to, or replacements of the ECMs, and any operational changes, or new procedures are necessary to enable the COMPANY to achieve the energy savings guaranteed by the COMPANY at the Premises and (iii) any costs incurred relative to such modifications, additions or replacements of the ECMs, or operational changes or new procedures shall be the responsibility of the COMPANY. All modifications, additions or
replacements of the ECMs or revisions to operating or other procedures shall be described in a supplemental Schedule(s) to be provided to the AGENT and the CUSTOMER for approval, which shall not be unreasonably withheld, and incorporated into this Agreement provided that any replacement ECM shall be new and have equal or better potential to reduce energy consumption at the Premises than the ECM being replaced. The COMPANY shall update any and all software to be used in connection with the ECMs in accordance with the provisions of Schedule G (COMPANY Maintenance Responsibilities). All replacements of and alterations or additions to the ECMs shall become part of the ECMs described in Schedule A (Equipment to be Installed by COMPANY) and shall become the property of the CUSTOMER. The COMPANY and the AGENT shall determine in accordance with the provisions of Article 9.5, what, if any, adjustments to the Baseline/Benchmarks set forth in Schedule E (Calculation of Baseline/Benchmarks; Methodology to Adjust Baselines) are necessary due to upgrades or alterations of the ECMs which are necessary to enable the COMPANY to achieve the level of energy savings guaranteed by the COMPANY.

8.8 Malfunction and Emergencies

The CUSTOMER shall use its best efforts to notify the COMPANY or its designee within forty-eight (48) hours after the CUSTOMER’S actual knowledge of the occurrence of:

8.8.1 Any material malfunction in the operation of the ECMs or any pre-existing energy-related equipment;
8.8.2 Any material interruption or alteration of the energy supply to the Premises;
8.8.3 Any material alteration or modification in the ECMs or their operation; and
8.8.4 Any material alteration, modification or change in the Premises or the use of the Premises.

The CUSTOMER shall use its best efforts to notify the COMPANY as soon as reasonably possible shall be deemed satisfied if the CUSTOMER reports any said material malfunction, interruption, alteration, modification, or change within forty-eight (48) hours of the CUSTOMER’S actual knowledge thereof.

The COMPANY and the AGENT shall determine in accordance with Article 9.5 what, if any, adjustments to the Baseline/Benchmarks set forth in Schedule E (Calculation of Baseline/Benchmarks; Methodology to Adjust Baselines) are necessary due to any of the events described under Article 8.8.

8.9 Responsibility for ECM Malfunction

During the Interim Period, including the applicable one-year warranty period, COMPANY agrees to compensate the CUSTOMER for damages to real or personal property, resulting from ECM malfunction due solely or in part to nonperformance or error by the COMPANY. Anything herein notwithstanding and with the exception of any indemnity obligations for third-party claims, in no event shall either the STATE or the COMPANY be liable to the other party for special, indirect, incidental or consequential damages, including commercial loss, loss of use, or lost profits, even if either party has been advised of the possibility of such damages.
8.10 Ownership of Certain Proprietary Property Rights (Software, Processes, Copyrights, Patents, Other Intellectual and Proprietary Rights, etc)

The CUSTOMER shall acquire no ownership interest in any software, formulas, patterns devices, secret inventions or processes, or copyright, patents, and other intellectual and proprietary rights, or similar items of property that are or may become used in connection with the ECMs. The COMPANY shall grant to the CUSTOMER a perpetual, irrevocable royalty-free license of any and all software or other intellectual property rights necessary for the CUSTOMER to continue to operate, maintain, and repair the ECMs in a manner that will maximize energy consumption reductions for the term of the Agreement. CUSTOMER shall be responsible for the cost of any software upgrades or new versions offered by the developers of the installed software, should the CUSTOMER select to upgrade the installed software.
Article 9: The Premises

9.1 Description of the Premises

The Premises in which the ECMs are to be installed and SERVICES are to be provided by the COMPANY under this Agreement are described in Schedule D (Description of the Premises).

9.2 Ownership of Existing Property

The Premises and all equipment and materials existing at the Premises at the time of execution of this Agreement shall remain the property of the CUSTOMER.

9.3 Material Change Defined

A Material Change ("Material Change") shall include any change in or to the Premises, not covered by Schedule B (Energy Savings Guaranty), whether structural, operational or otherwise in nature which reasonably could be expected, in the judgment of the AGENT and concurrence of the COMPANY to increase or decrease annual costs of energy usage by at least three percent (3%) of the expected energy consumption in the aggregate, after adjustments for climatic variations. Actions by the CUSTOMER that result in a Material Change which is subject to Article 9.3, include, but are not limited to the following:

9.3.1 Changes in the manner of use of the Premises by the CUSTOMER; or

9.3.2 Changes in the hours of operation for the Premises or for any equipment or energy using systems operating at the Premises; or

9.3.3 Permanent changes in the comfort and service operational parameters set forth in Schedule I (ECMs Operating Parameters); or

9.3.4 Changes in the occupancy of the Premises; or

9.3.5 Changes in the structure of the Premises; or

9.3.6 Changes in the types and quantities of equipment used at the Premises; or

9.3.7 Modification, renovation or construction at the Premises; or

9.3.8 The CUSTOMER'S failure to provide maintenance of and repairs to the ECMs pursuant to Article 8.5 hereof; or

9.3.9 Any significant damage to the Premises or the ECMs caused by fire, flood, or other casualty or any condemnation affecting a significant portion of the Premises; or

9.3.10 The permanent or temporary closing of a building at the Premises; or
9.3.11 Any other substantially changed condition, other than weather, affecting energy use at the Premises.

9.4 Reported Material Changes; Notice by CUSTOMER

The CUSTOMER shall use its best efforts to deliver to the COMPANY a written notice describing all actual or proposed Material Changes in the Premises or in the operations of the Premises no less than thirty (30) days before any actual or proposed Material Change is implemented. Notice to the COMPANY of Material Changes which result because of a bona fide emergency or other situation which precludes advance notification shall be deemed sufficient if given by the CUSTOMER within forty-eight (48) hours after the event constituting the Material Change occurred or was discovered by the CUSTOMER to have occurred.

9.5 Reported Material Changes; Adjustments to Baseline/Benchmarks

Any changes in energy usage which occur as the result of a Reported Material Change shall be timely reviewed by the COMPANY and the AGENT to determine what, if any, adjustments to the Baseline/Benchmarks set forth in Schedule E (Calculation of Baseline/Benchmarks; Methodology to Adjust Baselines) are necessitated by such Material Change(s). The COMPANY and the AGENT agree that any adjustments made to the Baseline/Benchmarks shall be in accordance with generally accepted engineering principles. Any disputes between the COMPANY and the AGENT concerning any such adjustment shall be resolved in accordance with the provisions of Schedule P (Alternative Dispute Resolution Procedures) hereto.

9.6 Unreported Material Changes

Upon and after the Commencement Date and in the absence of any Reported Material Change(s) in the Premises or in their operations, if energy savings deviate more than five percent (5%) percent during any year from projected energy savings for that year, after adjustment for changes in climatic conditions, then the COMPANY shall timely review such changes to ascertain the cause of such deviation. The COMPANY shall report its findings to the STATE in a timely manner consistent with Schedule E (Calculation of Baseline/Benchmarks; Methodology to Adjust Baselines), Schedule N (Methods of Savings Measurement and Verification) and Schedule B (Energy Savings Guaranty). The COMPANY and the AGENT shall determine what, if any, adjustments to the Baseline/Benchmarks set forth in Schedule E (Calculation of Baseline/Benchmarks; Methodology to Adjust Baselines) are necessary. Any disputes between the COMPANY and the AGENT concerning any such adjustment shall be resolved in accordance with the provisions of Schedule P (Alternative Dispute Resolution) hereto.

9.7 Handling of Hazardous Materials

All work completed under this Agreement must be in compliance with all applicable Federal, State and County laws, rules and regulations regarding waste disposal and treatment/disposal of any hazardous materials that could result from this project. WORK must also be in accordance with sound engineering and safety practices, and in compliance with all reasonable STATE rules relative to the premises. In the event the COMPANY encounters any such materials,
the COMPANY shall immediately notify STATE and stop work pending further instructions from the STATE. The STATE may, in its sole discretion, suspend work on that portion of the project pending removal of such materials, delete that portion of the WORK (as a credit to the STATE); or the AGENT will authorize the COMPANY to submit a scope and budget proposal breakdown for abatement or removal of the hazardous materials in a manner that will facilitate timely completion of WORK by the COMPANY, whereby the COMPANY will be compensated for this additional scope with GESA contract funds set aside as an authorized project contingency allowance. All hazardous substances not specifically included in the COMPANY’S WORK, however, remain the responsibility of STATE and the COMPANY shall assume no liability in connection with their removal, handling, transportation, and/or disposal unless authorized to do so by the AGENT. In all instances, with the only exception being those hazardous materials that COMPANY brings to the site, the STATE will be the “Generator” of record and sign any and all disposal documents (i.e. manifests, bills of lading, etc.) in order to document the abatement or removal of any such hazardous materials from the STATE’S site or Premises.

Article 10: General Terms and Conditions

10.1 Assignment

The COMPANY acknowledges that the STATE is induced to enter into this Agreement by, among other things, the professional qualifications of the COMPANY. The COMPANY agrees that neither this Agreement nor any right or obligation hereunder may be assigned in whole or in part, without the prior written approval of the AGENT.

10.1.1 Assignment by COMPANY

The COMPANY may, with prior written consent of the AGENT, which consent shall not be unreasonably withheld, delegate or assign its duties and its performance under this Agreement, and/or utilize subcontractors, provided that any assignee(s), delegatee(s), or subcontractor(s) shall honor the terms of this Agreement. Notwithstanding the provisions of this paragraph, the COMPANY shall remain jointly and severally liable with its assignee(s), or transferee(s) to the AGENT for all of its obligations under this Agreement.

10.1.2 Assignment by the CUSTOMER

The STATE may, transfer or assign this Agreement and its rights and obligations herein to a successor or purchaser of the Premises, or an interest therein, subject to the approval of the COMPANY that will not be unreasonably withheld.

10.2 Duty to Indemnify

The COMPANY shall defend, indemnify, keep and save harmless the STATE and its agents and employees against all suits, claims, damages, losses and expenses, including attorney's fees, caused by, growing out of, or incidental to, the wrongful or negligent performance of the WORK
under this Agreement by the COMPANY or its subcontractors to the fullest extent allowed by the laws of the State of Hawaii provided that the AGENT shall promptly notify the COMPANY of any suits or claims and shall allow COMPANY, at its sole expense, to settle or defend and control the defense of any suit based upon such claim or claims. In the event of any such injury (including death) or loss or damage, or claims therefore, the COMPANY shall give prompt notice to the AGENT. The COMPANY’S subcontractors shall include the foregoing as parties as to whom indemnification is due under their subcontracts. Provided, however, that in no event shall the COMPANY be obligated to indemnify the STATE to the extent that any injury or damage is caused by the negligence of the STATE or any entity or person for which the STATE is legally responsible.

10.2.1 Effect of Statutory Limitations

In the event of any claim against the STATE or against any of its officials or employees, in either their personal or official capacities, made by any direct or indirect employee or agent of the COMPANY or of any subcontractor, the COMPANY’S indemnification obligation shall not be affected by any limitation on the amount or type of damages, compensation or benefits payable to said employee or agent contained in any other type of employee benefit act.

10.2.2 Intellectual Property Claims Indemnification

The COMPANY shall protect, defend, indemnify, and hold the STATE harmless against and from any and all claims, judgments, amounts paid in settlement, costs and expenses, including reasonable attorneys’ fees relating to alleged patent, trademark or copyright infringement, misappropriation of proprietary rights, or trade secrets or similar claims, resulting from actions taken by the COMPANY in connection with this Agreement.

10.3 Alternative Dispute Resolution (ADR)

The provisions for Alternative Dispute Resolution (ADR) attached as Schedule P (Alternative Dispute Resolution Procedures) shall govern the resolution of any disputes arising relative to the terms of, or performance required by, this Agreement.

10.4 No Waiver

The failure of COMPANY or the AGENT to insist upon the strict performance of the terms and conditions hereof shall not constitute or be construed as a waiver or relinquishment of either Party’s right to thereafter enforce the same in accordance with this Agreement in the event of a continuing or subsequent default on the part of the COMPANY or the STATE, unless specifically waived.

10.5 Severability
It is agreed that the illegality or invalidity of any term or clause of this Agreement, shall not affect the validity of the remainder of this Agreement, and this Agreement shall remain in full force and effect as if such illegal or invalid term or clause were not contained herein.

10.6 Complete Agreement; Amendments

This Agreement, when executed, together with all Project Documents and Schedules referred to in Article 3.5 and any other exhibits or attachments referred to in this Agreement, shall constitute the entire agreement between the Parties and this Agreement may not be amended or modified except by a written agreement signed by the Parties hereto.

10.7 Further Documents

The Parties shall execute and deliver all documents and perform all further acts that may be reasonably necessary to effectuate the provisions of this Agreement.

10.8 Applicable Law

This Agreement and the construction and enforceability thereof shall be interpreted under the laws of the State of Hawaii.

10.9 Notices

Two (2) copies of all notices required under this Agreement or contractual correspondence shall be in writing and shall be deemed properly served if delivered in person to the individual to whom it is addressed or, three (3) days after deposit in the United States mail, if sent postage prepaid by United States registered or certified mail, return receipt requested, as follows:

(A) To the AGENT:

Mr. Ernest Y.W. Lau  
Public Works Administrator  
Public Works Division  
Department of Accounting and General Services  
State of Hawaii  
1151 Punchbowl Street, Room 426  
Honolulu, Hawaii 96813

(B) To the CUSTOMER:

Mr. XXXX  
Department of Public Safety  
State of Hawaii  
677 Ala Moana Boulevard, Room XXX  
Honolulu, Hawaii 96XXX

(C) To the COMPANY:

Neil Petchers  
NORESCO LLC
10.10 Termination for Convenience by the STATE

Subsequent to the Acceptance Date, this Agreement may be terminated at the sole discretion of the STATE in accordance with the provisions of Article 10.10.

The STATE shall provide notice of its election to terminate to the COMPANY no later than thirty (30) days in advance of the end of the current guaranty period. The termination shall become effective on the last day of said guaranty period. The COMPANY’s obligation to report, reconcile, and verify the energy savings achieved during the guaranty period proceeding termination remains in full force and effect, as does its obligation, pursuant to Article 3.4 of this Agreement, to remit payment to the STATE in the event that the energy savings have not been achieved at the level guaranteed by the COMPANY.

The termination of this Agreement by the CUSTOMER shall release the COMPANY from its obligation to provide maintenance, monitoring and training services after the effective date of termination, as well as its obligation to provide the Guaranteed Energy Savings after the termination date. Termination by the CUSTOMER shall release it from the obligation to make any payments to the COMPANY for maintenance, monitoring, and training services after the termination date, provided, however, that the CUSTOMER is responsible for payment for maintenance, monitoring, and training services performed in accordance with the terms of this Agreement prior to the termination date.

In the event of a Termination of this Agreement for Convenience by the STATE, the CUSTOMER agrees, to the extent permitted by Hawaii law, not to purchase, lease, rent, borrow, seek appropriations for, acquire, or otherwise receive the benefits of any of the same and unique Services performed by COMPANY under the terms of this Agreement for a period of three-hundred sixty five (365) days following such Termination for Convenience by the STATE.

10.11 Phasing of Project Implementation

The STATE and the COMPANY agree that the award and scope of work contemplated under this Agreement may include additional work such as other energy conservation measures; unforeseen site conditions; hazardous material abatement or removal; emergency service repairs, etc., at the Premises subject to the availability of GESA contract funds.

Article 11: Events of Default: Remedies; Termination; Right to Offset

11.1 Events of Default by the STATE

Each of the following events or conditions shall constitute an "Event of Default" by the STATE with respect to its obligations under this Agreement:
(A) Any failure to make payments to the COMPANY of all undisputed amounts in accordance with the provisions of Schedule C (Compensation to COMPANY) hereof more than thirty (30) days after written notification by COMPANY that STATE is delinquent in making such payment, provided that the COMPANY is not in default in its performance under the terms of this Agreement;

(B) Any representation or warranty furnished by the STATE in this Agreement proves to be false or misleading in any material respect when made;

(C) Any other material failure by the STATE to perform or comply with the terms and conditions of this Agreement, including breach of any covenant contained herein except, provided that such failure if corrected or cured within thirty (30) days after written notice to the STATE demanding that such failure to perform be cured shall be deemed cured for purposes of this Agreement.

11.2 Remedies Upon Default by the STATE

If an Event of Default by the STATE, as described in Article 11.1 occurs, the COMPANY shall exercise the remedies as provided for in Schedule P (Alternative Dispute Resolution).

11.3 Events of Default by the COMPANY

Each of the following events or conditions shall constitute an "Event of Default" by the COMPANY for purposes of this Agreement with respect to obligations of the COMPANY:

(A) The COMPANY's failure to furnish and install the ECMs in accordance with the provisions of this Agreement and within the time specified by this Agreement;

(B) Failure by the COMPANY to pay any amount owing to the STATE due to the COMPANY’S failure to achieve its Schedule B (Energy Savings Guaranty) during any Guaranty Year throughout the term of this Agreement or to perform any obligation under Schedule B (Energy Savings Guaranty), provided that such failure shall not delay or otherwise impact the Commencement Date;

(C) The standards of comfort and service set forth in Schedule I (ECMs Operating Parameters) are not provided due to failure of the COMPANY to properly design, install, maintain, repair, or adjust the ECMs except that such failure if corrected or cured within thirty (30) days after written notice to the COMPANY demanding that such failure be cured shall be deemed cured for purposes of this Agreement;

(D) Failure to perform its obligations in accordance with the terms of this Agreement, including failure to provide sufficient personnel, equipment or material to ensure the performance required and failure to meet the Project Installation Schedule provided for in Schedule K (Construction and Installation Schedule), due to a reason or circumstance within the COMPANY’S reasonable control; the AGENT shall grant schedule relief to COMPANY for those tasks that are impacted by circumstance outside of the
(E) The COMPANY’s failure to promptly re-perform, within a reasonable time, Work or Services that were rejected as defective or non-conforming.

(F) The COMPANY’s discontinuance of the required performance for reasons not beyond the COMPANY’s reasonable control;

(G) Any lien or encumbrance upon the ECMs by any subcontractor, laborer, material supplier or other creditor of the COMPANY if not removed within sixty (60) days after receipt of notice from the AGENT of such lien or encumbrance;

(H) Any material change in ownership or control of the COMPANY without written notice provided to the AGENT within thirty (30) days of such change;

(I) Default under any other agreement the COMPANY may presently have or may enter into with the CUSTOMER during the term of this Agreement. The COMPANY acknowledges and agrees that in the event of a default under this Agreement, the CUSTOMER may also declare a default under any such other agreements;

(J) Any material misrepresentation, whether negligent or willful and whether in the inducement or in the performance, made by the COMPANY to the CUSTOMER;

(K) The filing of a bankruptcy petition whether by the COMPANY or its creditors against the COMPANY which proceeding shall not have been dismissed within sixty (60) days of its filing, or an involuntary assignment for the benefit of creditors or the liquidation or insolvency of the COMPANY;

(L) Any failure by the COMPANY to perform or comply with the terms and conditions of this Agreement, including breach of any covenant contained herein except that such failure, if corrected or cured within thirty (30) days after notice to the COMPANY demanding that such failure to perform be cured, shall be deemed cured for purpose of this Agreement.

11.4 Remedies upon Default by the Company

The occurrence of any Event of Default, as described in Article 11.3(H) or (K) shall constitute an immediate default. The occurrence of any Event of Default other than an Event of Default, as described in Article 11.3(H) or (K) which the COMPANY has failed to cure within thirty (30) calendar days after receipt of notice given in accordance with the terms of this Agreement and specifying the Event of Default shall, at the sole option of the AGENT, permit the AGENT to declare the COMPANY in default; provided however, that if such Event of Default cannot reasonably be cured within such thirty (30) day period, such Event of Default shall not constitute a default if the COMPANY begins to cure such Event of Default within such thirty (30)-day period and diligently pursues the actions necessary to cure such Event of Default so that the Event of Default is cured as soon as reasonably possible. The occurrence an Event of Default described in Article 11.3(H) shall be deemed cured upon COMPANY providing written notice to AGENT of such material change of ownership. Written notification of the Event of
Default, and the intention of the AGENT to terminate this Agreement, shall be provided to the COMPANY and such decision shall be final and effective upon the COMPANY’s receipt, as defined herein, of such notice. Upon the giving of such notice as provided herein, the COMPANY must discontinue any SERVICES, unless otherwise directed in the notice, and deliver all materials accumulated in the performance of this Agreement, whether completed or in process, to the AGENT. At such time the AGENT make invoke any or all of the following remedies:

(A) The right to take over and complete the WORK, or any part thereof.

(B) The right to immediately terminate this Agreement as to any or all of the WORK or other services yet to be performed by the COMPANY;

(C) The right of specific performance, injunctive relief or any other appropriate equitable remedy;

(D) The right to money damages;

(E) The right to withhold all or any part of the COMPANY’s compensation hereunder; and if the AGENT considers it to be in its best interests, it may elect not to declare default or to terminate this Agreement. The parties acknowledge that this provision is solely for the benefit of the AGENT and that if the AGENT permits the COMPANY to continue to perform the WORK and other SERVICES despite one or more Events of Default, the COMPANY shall in no way be relieved of any of its responsibilities, duties, or obligations under this Agreement nor shall the AGENT waive or relinquish any of its rights.

The remedies under the terms of this Agreement are not intended to be exclusive of any other remedies provided, but each and every such remedy shall be cumulative and shall be in addition to any other remedies, existing now or hereafter, at law, in equity or by statute. No delay or omission to exercise any right or power accruing upon any Event of Default shall impair any such right or power nor shall it be construed as a waiver of any Event of Default or acquiescence therein, and every such right and power may be exercised from time to time and as often as may be deemed expedient.

11.5 Right to Offset

Any additional costs incurred by the STATE in the event of termination of this Agreement for default or otherwise resulting from the COMPANY’S performance or non-performance under this Agreement, including the exercise by the STATE of any of the remedies available to it under Article 11.4 hereof, and any credits due to the STATE (such as available balance in authorized project contingency allowance under the GESA contract) or overpayments made by the AGENT may be offset by use of any payment due for the WORK or other services completed before the termination for default or before the exercise of any remedies. If such amount offset is insufficient to cover such excess costs, the COMPANY shall be liable for and promptly remit to the STATE the difference upon written demand therefore. This right to offset is in addition to and not a limitation of any other remedies available to the STATE.
Article 12: Representations and Warranties

12.1 Each party warrants and represents to the other that:

(A) It has all requisite power, authority, licenses, permits, and franchises, corporate or otherwise, to execute and deliver this Agreement and perform its obligations hereunder;

(B) Its execution, delivery, and performance of this Agreement have been duly authorized by, or are in accordance with, its organic instruments, and this Agreement has been duly executed and delivered for it by the signatories so authorized, and it constitutes its legal, valid, and binding obligation;

(C) Its execution, delivery, and performance of this Agreement will not result in a breach or violation of, or constitute a default under, any agreement, lease or instrument to which it is a party or by which it or its properties may be bound or affected; and

(D) It has not received any notice, nor to the best of its knowledge is there pending or threatened any notice, of any violation of any applicable laws, ordinances, regulations, rules, decrees, awards, permits or orders which would materially and adversely affect its ability to perform hereunder.

12.2 Representations and Warranties by the STATE

The AGENT and the CUSTOMER hereby warrants and represents to the COMPANY that:

(A) It will provide throughout the term of this Agreement (or cause its energy suppliers to furnish) to the COMPANY, upon its request, copies of all available records and data concerning energy usage for the Premises including but not limited to the following data: utility records and rate schedules; occupancy information; descriptions of any major changes in the structure or use of the buildings or heating, cooling, lighting or other systems or energy requirements; descriptions of all energy consuming or saving equipment used in the Premises; descriptions of energy management procedures presently utilized; and any prior energy analyses of the Premises. The AGENT and the CUSTOMER shall make knowledgeable employees and agents available for consultations and discussions with the COMPANY concerning energy usage of the Premises.

(B) It has not entered into any leases, contracts, or agreements with other persons or entities regarding the leasing of energy efficiency equipment or the provision of energy management services for the Premises or with regard to servicing any of the energy related equipment located in the Premises.

12.3 Representations and Warranties by the COMPANY

The COMPANY represents and warrants the following to the STATE (in addition to the other representations and warranties contained in the Project Documents), as an inducement to the
STATE to execute this Agreement, which representations and warranties shall survive the execution and delivery of this Agreement and the Final Completion of the WORK.

(A) That it is financially solvent, able to pay its debts as they mature and possessed of sufficient working capital to complete the WORK and perform its obligations under this Agreement;

(B) That it and each of its employees, agents and subcontractors of any tier are competent to perform its obligations under this Agreement;

(C) That it is able to furnish the plant, tools, materials, supplies, equipment and labor required to complete the WORK and perform its obligations hereunder and has sufficient experience and competence to do so;

(D) That it is authorized to do business in the State of Hawaii and is properly licensed by all necessary governmental and public and quasi-public authorities having jurisdiction over it and over the WORK and the Premises;

(E) That its execution of this Agreement and its performance thereof is within its duly authorized powers; and

(F) That its duly authorized representative has visited the Premises, familiarized itself with the local conditions under which the WORK is to be performed and correlated its observations with the requirements of the PROJECT DOCUMENTS.

Article 13: Applicable Laws

13.1 Statutory and Regulatory Requirements

All applicable Federal and State laws and the County codes, rules and regulations of all authorities having jurisdiction over the performance of the PROJECT shall apply to this Agreement throughout its term and they will be deemed to be included in this Agreement the same as though written herein in full. To assist in COMPANY’s tax compliance, upon job completion the STATE agrees, if applicable, to execute the required Written Allocation including the Declaration related to Section 179D of the Internal Revenue Code. COMPANY will be responsible for preparing the Declaration, all accompanying documentation and the contents therein. COMPANY will be designated the sole Section 179D beneficiary.

13.2 COMPANY’S Failure to Comply with Statutory and Regulatory Requirements

The COMPANY, and its subcontractors shall comply with all laws, rules, regulations, and codes applicable to performance of the WORK and the maintenance, monitoring, and training services to be performed pursuant to Article 6. Except where expressly required by applicable laws and regulation, the STATE shall not be responsible for monitoring the COMPANY’S compliance with any laws or regulations. When the COMPANY observes conflicting regulatory requirements, it shall notify the AGENT in writing immediately. If the COMPANY performs any of the WORK or
other SERVICES required by this Agreement knowing or having reason to know that the WORK or such SERVICES are contrary to such laws, rules and regulations, the COMPANY shall pay all costs arising there from.

**Article 14: Right to Audit**

The STATE shall have the right to have access to and audit all of the COMPANY’S records, books, correspondence, instructions, drawings, receipts, vouchers, memoranda, and similar data relating to this Agreement. In addition, the AGENT or its authorized representative shall have access to the COMPANY’S facilities and shall be provided adequate and appropriate workspace, in order to conduct audits in compliance with this article.

**Article 15: Approval**

This Agreement shall not be executory until all necessary State approvals are obtained.

IN WITNESS WHEREOF, the duly authorized officers or representatives of the Parties have set their hand on the date first written above with the intent to be legally bound.

**AGENT**

Russ Saito
Comptroller
State of Hawaii

**COMPANY**

Neil Petchers
President and Chief Executive Offi cer
NORESCO, LLC

SWORN TO AND SUBSCRIBED BEFORE ME THIS ____________________/DAY OF___________________, 20____.

___________________________________
Notary Public

APPROVED AS TO FORM:

______________________________
DEPUTY ATTORNEY GENERAL
STATE OF HAWAII

**CUSTOMER**

______________________________
Clayton A. Frank
Director
State of Hawaii
SWORN TO AND SUBSCRIBED BEFORE
ME THIS __________ DAY OF ____________, 20____.

___________________________________
Notary Public

APPROVED AS TO FORM:

___________________________________
DEPUTY ATTORNEY GENERAL
STATE OF HAWAII
# APPENDIX I

## FEMP RISK AND RESPONSIBILITY MATRIX

### FINANCIAL

**Interest Rates:** Neither the ESCO nor the agency has significant control over the prevailing interest rate. During all phases of the project interest rates will change with market conditions. Higher interest rates will increase project cost, finance term, or both. The timing of the Delivery Order signing may affect the available interest rate and project cost. Clarify when the interest rate is locked in, and if it is a fixed or variable rate.

**Energy Prices:** Neither the ESCO nor the agency has significant control over actual energy prices. For calculating savings, the value of the saved energy may either be constant, change at a fixed inflation rate, or float with market conditions. If the value changes with the market, falling energy prices place the ESCO at risk of failing to meet cost savings guarantees. If energy prices rise, there is a small risk to the agency that energy saving goals might not be met while the financial goals are. If the value of saved energy is fixed (either constant or escalated), the agency risks making payments in excess of actual energy cost savings.

**Construction Costs:** The ESCO is responsible for determining construction costs and defining a budget. In a fixed-price design/build contract, the agency assumes little responsibility for cost overruns. However, if construction estimates are significantly greater than originally assumed, the ESCO may find that the project or measure is no longer viable and drop it. In any design build contract the agency loses some design control. Clarify design standards and the design approval process (including changes), and how costs will be reviewed.

**M&V Costs:** The agency assumes the financial responsibility for M&V costs directly or though the ESCO. If the agency wishes to reduce M&V cost, it may do so by accepting less rigorous M&V activities with more uncertainty in the savings estimates. Clarify what performance is being guaranteed (equipment performance, operational factors, energy cost savings), and that the M&V plan is detailed enough to satisfactorily verify it.
**Delays:** Both the ESCO and the agency can cause delays. Failure to implement a viable project in a timely manner costs the agency in the form of lost savings, and can add cost to the project. Clarify schedule, and how delays will be handled.

**Major Changes in Facility:** The agency (or Congress) controls major changes in facility use, including closure. Clarify responsibilities in the event of a premature facility closure, loss of funding, or other major change.

**OPERATIONAL**

**Operating Hours:** The Agency generally has control over the operating hours. Increases and decreases in operating hours can show up as increases or decreases in “savings” depending on the M&V method (e.g., operating hours times improved efficiency of equipment vs. whole building utility analysis). Clarify if operating hours are to be measured or stipulated, and what is the impact if they change. If the operating hours are stipulated, the baseline should be carefully documented and agreed to by both parties.

**Load:** Equipment loads can change over time. The agency generally has control over hours of operation, conditioned floor area, intensity of use (e.g., changes in occupancy or level of automation). Changes in load can show up as increases or decreases in “savings” depending on the M&V method. Clarify if equipment loads are to be measured or stipulated and what is the impact if they change. If the equipment loads are stipulated, the baseline should be carefully documented and agreed to by both parties.

**Weather:** A number of energy efficiency measures are affected by weather. Neither the ESCO nor the agency has control over the weather. Changes in weather can increase or decrease “savings” depending on the M&V method (e.g., equipment run hours times efficiency improvement vs. whole building utility analysis). If weather is “normalized,” actual savings could be less than payments for a given year, but will “average out” over the long run. Weather corrections to the baseline or ongoing performance should be clearly specified and understood.
**Life of Equipment:** Equipment life is dependent on the original selection (contractor controlled), and operations and maintenance. Warrantees usually cover failures in the first year. Extended warrantees (often tied to service contracts) are available and assure that the agency won’t continue paying for equipment that is no longer functional. Clarify who is responsible for repair and replacement of failed components throughout the term of the contract.

**User Participation:** Many energy conservation measures require user participation to generate savings (e.g., control settings). The savings can be variable and the ESCO may be unwilling to invest in these measures. Clarify what degree of user participation is needed, and utilize monitoring and training to mitigate risk. If performance is stipulated, document and review assumptions carefully, and consider M&V to confirm the capacity to save (e.g., confirm that the controls are functional).

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**PERFORMANCE**

**Equipment Performance:** Generally, the ESCO has control over the selection of equipment and is responsible for its proper installation and performance. Generally the ESCO has responsibility to demonstrate that the new improvements meet expected performance levels including standards of service and efficiency. Clarify who is responsible for initial and long-term performance, how will it be verified, and what will be done if performance does not meet expectations.

**Maintenance:** Responsibility for maintenance is negotiable, however it is often tied to performance. Clarify how long-term maintenance will be assured, especially if the party responsible for long-term performance is not responsible for maintenance.

**Operation:** Responsibility for operation is negotiable, and it can impact performance. Clarify how proper operation will be assured. Clarify responsibility for operations and implications of equipment control.
APPENDIX J

SAMPLE MEASUREMENT AND VERIFICATION
AND COMMISSIONING PLAN

Year 1 – Measurement & Verification Plan

The M&V Plan developed using IPMVP Option “A” is to be used for savings determination. For this ECM, partial measurement is deemed to provide adequate accuracy since there are multiples of similar lighting fixtures (lamps, ballasts) throughout the project.

An outline of the plan is shown below –

- The boundary of this ECM was drawn to include the lighting circuits fed by the 277 volt supply;
- The baseyear conditions are those of the time period immediately preceding the decision to proceed with the project. They include description, location and number of lamps ballasts, and fixtures as shown through the line-by-line audit;
- The lighting operating periods of the post-retrofit period are selected as the common set of conditions for the energy use terms in Equation 1 mentioned in the introductory paragraph of this section;
- The operating hours utilized for this ECM will be stipulated on the basis of the:
  a) Information provided by the customer

The following operating hours are stipulated for hour groups specific to the facility operations and energy usage:

<table>
<thead>
<tr>
<th>Hour Groups</th>
<th>Annual Hours</th>
<th>Diversity Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Wing Building</td>
<td>2860</td>
<td>0.85</td>
</tr>
<tr>
<td>Finance Office Building</td>
<td>2860</td>
<td>0.85</td>
</tr>
<tr>
<td>Forum Office Building</td>
<td>2860</td>
<td>0.85</td>
</tr>
<tr>
<td>Irvis Office Building</td>
<td>2860</td>
<td>0.85</td>
</tr>
<tr>
<td>North Office Building</td>
<td>2860</td>
<td>0.85</td>
</tr>
<tr>
<td>Central Plant</td>
<td>2860</td>
<td>0.85</td>
</tr>
<tr>
<td>Tunnel Mechanical</td>
<td>8760</td>
<td>0.85</td>
</tr>
<tr>
<td>Mechanical Room &amp; Janitor Closets</td>
<td>1092</td>
<td>1</td>
</tr>
<tr>
<td>Generator Lighting</td>
<td>364</td>
<td>1</td>
</tr>
<tr>
<td>Emergency Lighting</td>
<td>8760</td>
<td>1</td>
</tr>
<tr>
<td>Exit Lighting</td>
<td>8760</td>
<td>1</td>
</tr>
</tbody>
</table>

- Measurements will be accomplished with a recently calibrated RMS clamp meter of the three phase power draw on the 277 volt fixtures. The manufacturer’s rating on this power meter is ± 1.3% of full scale.
- Savings will be verified post-implementation using a re-measurement of the lighting electrical load immediately after installation.
- The conditions for the baseyear were chosen as the common set of conditions for calculating current energy use. The post-retrofit energy use, and the reported savings, will be determined on the basis of the baseyear conditions as well; and
All required operation and maintenance procedures will be conducted by the Capitol Complex staff with oversight from CLT to ensure proper functioning of the lighting fixtures post-retrofit.

Baseyear Energy Use

Baseyear metering of randomly selected representative lighting circuits will be conducted to derive baseyear energy use. A statistically derived representative sample size was selected for measuring the power draw. Points are selected based upon type of operating area and type of fixture retrofit (see attached Lighting measurements).

The power draw for each point will be measured as follows –

\[
\text{kW}_{\text{baseyear}} = \frac{\text{Voltage} \times \text{Amps}}{1000}
\]

The metered data will be averaged by fixture type to arrive at the baseyear power draw for the fixture. These actual metered lighting circuit power draws will be used along with the stipulated and verified hours of operation to determine the baseyear energy use for lighting.

Post-Retrofit Energy Use

Post-retrofit energy use will be determined by measuring the post-retrofit power draw of the same representative points identified in the baseyear readings.

\[
\text{kW}_{\text{post-retrofit}} = \frac{\text{Voltage} \times \text{Amps}}{1000}
\]

Savings

Energy savings for this ECM is determined through the following equation –

\[
\text{Savings kWh} = (\text{Hours} \times \text{Lighting kW}_{\text{baseyear}}) - (\text{Hours} \times \text{Lighting kW}_{\text{post-retrofit}})
\]

The difference between the kWh consumption for the existing lighting system and the new system is the lighting energy reduction. Cost savings due to this measure are simply the kWh reduction multiplied by the established cost per kWh.

The savings amount will be determined by the following equations –

\[
\text{Energy Reduction (in kWh)} = \text{Lighting kWh}_{\text{baseyear}} - \text{Lighting kWh}_{\text{post-retrofit}}
\]

\[
\text{Savings} = \text{Energy Reduction (in kWh)} \times \$/$\text{kWh} \text{ (Electricity Rate)}
\]

Year 2-15 – Continuous Commissioning

Under continuous commissioning of the lighting systems, CLT proposes to structure the procurement process of replacement lamps and ballasts to ensure savings are realized throughout the project term. This requires that any replacement materials (lamps and ballasts both) be replaced with energy efficient equipment specified by CLT in the Investment Grade Audit design (lighting audit) and O&M manuals.

CLT will also conduct an annual walkthrough of all the buildings in an effort to ensure that correct equipment is installed and is functional.

Personnel Involved

- CLT M&V Manager
- DGS Appointed Contact Person
- DGS Purchasing Department
Commissioning Process

Following the lighting retrofit project, CLT will submit an “As-built” report to the purchasing department. The “As-built” report will detail the type of lamp and ballast installed at each location in all of the buildings. This “As-built” will serve as a purchasing guide and direct as to what type of lamp and ballast are required in case a replacement is desired at a particular location.

The building managers and in-house electricians will be an important part of this process. Building managers can stipulate the type of lamps and ballasts to be purchased based on CLT’s design. They have to be aware that they do an “in-kind” replacement of the lamps and ballasts and any discrepancies are reported to the purchasing department.

CLT will also work with the preferred lighting vendor to develop a list of materials to be supplied to the Capitol Complex Buildings.

On an annual basis, CLT’s lighting designer and the building managers will conduct a walkthrough of all the buildings to ensure that the lighting savings are not compromised by replacement lamps and ballasts which do not comply with the original design. In the event that non-compliant lamps and ballasts are found, CLT will investigate the problem and address how it can be avoided in the future. Based on the walkthrough, the commissioning report will detail the findings and suggest corrective action in case of any deficiencies/inconsistencies.

Also, CLT will conduct interactive training sessions with all personnel to discuss the continuous commissioning process in case of staff turnover. The training sessions will help CLT address any issues faced by the involved personnel and to better the process moving forward.

The continuous commissioning process will enable CLT and DGS personnel to continuously address any additional lighting improvements. Opportunities to maximize daylighting and related lighting control devices (shades, light shelves, etc) can be investigated. Issues related to lighting levels can be addressed by specifying the required lighting panels.

ECM 2: Window Replacement

Year 1 – Measurement & Verification Plan

An M&V Plan using IPMVP Option “A” is to be used for savings determination. An outline for the plan is as follows –

- The boundary of this ECM is drawn to include only the specified windows, since the proposed implementation will only affect the energy consumption by the windows;
- The baseyear energy use will, in part, be based on actual field measurements of a sample;
• The electric and thermal savings associated with this ECM will be determined using the assumptions and formulas as set forth in the energy savings calculations for the windows;

• The following will be verified post-installation, to ensure that the installed windows conform to the assumptions, calculations and formulae used for calculating savings –

- Area of openings:
  - Finance 23,283 sf
  - Forum 17,263 sf
  - North 20,410 sf
  - Irvis 18,996 sf
  - Total proposed 79,952 sf
- U – Value of new windows as stated by manufacturer
- Utility rates for electricity and steam
- Bin weather hours for Harrisburg
- Themography of building faces to indicate proper installation (well sealed) and reduced conductive losses

Baseyear Energy Use
To demonstrate the presence of heat loss through the windows and surrounding areas, CLT will use thermal imaging technology. The thermal images will be acquired through the use of a Mikron Midas infrared camera. This camera is able to detect transfer of infrared energy that is invisible to the human eye. These photos will be taken during daylight so one must consider the presence of infrared energy contributed directly from the sun. Therefore, a cold and cloudy day presents the optimum conditions. The exterior air temperature will be recorded throughout the collection of these images.

Building façade temperatures vary due to their insulation values and the amount of sunlight striking the surfaces. These photos focus more on smaller areas where building insulation may be compromised rather than overall properties of exterior finish materials.

Total building infiltration rates for the existing fenestration have been determined in a simulation of baseline energy use, in which the infiltration rates of all openings having a given orientation are adjusted for typical wind direction and speed, with appropriate factors accounting for pressurization, net air exchange, etc. The simulation will also recognize typical weather conditions; average delivered indoor temperatures, and anticipated heating / cooling efficiencies.

The following relevant information is used in calculating the baseline consumption for existing windows.

Leakage = Perimeter x Crack/12 x Wind Speed x Wind Efficiency,
Infiltration = 1.08 x Leakage x (IAT – OAT) x Hours / Heating Efficiency,
Conduction = U Value x (IAT – OAT) x Hours / Heating Efficiency,
Solar Gain in Tons (SG) = SC x CLF x SHGF x Area / 12000,
Solar Gain Demand in kW = SHG x Months x Cooling kW/Ton, and
Solar Gain Consumption in kWh = SHG x Cooling kW/Ton x EFL

Where,
- Window Perimeter (Perimeter) = varies per building
- Window Surface Area (AREA) = varies per building
- U Value = 1.3 (ASHRAE Fundamentals)
- Crack = 0.109 inch
- Hours = 5251
- Average Delivered Indoor Air Temperature (IAT) = 67°F
- Average Outdoor Air Temperature (OAT) = 46.8°F
- Wind Speed = 660 fpm
- Wind Efficiency = 20% windward face, 3% sheltered face
- Heating Efficiency = 86%
- Equivalent Full Load Hours (EFL) = 900
- Shading Coefficient (SC) = 0.67
- Cooling KW/Ton = Varies per building
- Solar Heat Gain Factor (SHGF) = Varies on Window Direction (216, 109, 38)
- Cooling Load Factor (CLF) = Varies on Window Direction (0.17, 0.35, 0.75, 0.82)
- Months of Cooling = 5

Post-Retrofit Energy Use
To detect any presence of heat loss through the windows and surrounding areas, CLT will use thermal imaging technology. The thermal images will be acquired through the use of a Mikron Midas (or approved equal) infrared camera.

Post-retrofit Energy will be derived by calculation using input data determined in the calibrated baseline simulation, along with appropriate stipulated values for the characteristics of the window upgrades.

Routine Adjustments
If there is any discrepancy between the assumptions made and the actual observations adjustments may be required to bring post-retrofit energy use to the conditions of the baseyear.

Savings
As a basis of estimating the savings for the project, the following relevant information will be used to determine the consumption of the proposed windows.
- Leakage = Window Perimeter x Crack/12 x Wind Speed x Wind Efficiency,
- Infiltration = 1.08 x Leakage x (IAT – OAT) x Hours / Heating Efficiency,
- Conduction = U Value x Area x (IAT – OAT) x Hours / Heating Efficiency,
- Solar Gain in Tons (SG) = SC x CLF x SHGF x Area / 12000,
- Solar Gain Demand in kW = SHG x Months x Cooling kW/Ton, and
- Solar Gain Consumption in kWh = SHG x Cooling kW/Ton x EFL

Where,
- Window Perimeter (Perimeter) = varies per building
- Window Surface Area (AREA) = varies per building
- U Value = 0.53 (based on manufactured specifications)
- Crack = 0.023 inch (based on manufactured specifications)
Heating Hours per year 5251
Average Delivered Indoor Air Temperature (IAT) = 67°F
Average Outdoor Air Temperature (OAT) = 46.8°F
Wind Speed = 660 fpm
Wind Efficiency = 20% windward face, 3% sheltered face
Heating Efficiency = 86%
Equivalent Full Load Hours (EFL) = 900
Shading Coefficient (SC) = 0.58
Cooling kW/Ton = Varies per building
Solar Heat Gain Factor (SHGF) = Varies on Window Direction (216, 109, 38)
Cooling Load Factor (CLF) = Varies on Window Direction (0.17, 0.35, 0.75, 0.82)
Months of Cooling = 5
Savings will be the difference between the pre-retrofit consumption, based on the calculations, and the post-retrofit consumption, based on the calculations.

**Year 2 – 15 – Continuous Commissioning**

Under continuous commissioning of the window systems, CLT proposes to conduct thermal imaging of replacement windows every three (3) years to ensure savings are realized throughout the project term. Over the 15-year term, the U-value of the new windows will be a constant and the only components to be monitored are the window insulation and caulking to detect presence of any leakage.

CLT will also conduct an annual walkthrough of all the buildings in an effort to ensure that the integrity of the window insulation is not compromised over the years.

**Personnel Involved**
- CLT M&V Manager
- DGS Appointed Contact Person
- Third-party Commissioning Agent
- Building Manager(s)

**Commissioning Process**

Every three years, after the all the windows have been installed, CLT or a third-party commissioning agent will take the same 38 thermal images of the building windows to compare pre, post and on-going performance.

The following images will be taken:
- North and Irvis Building: –16 total (8 images each building) – 3 on each wide exposure and 1 on each narrow exposure.
- Finance Building - 12 total - 3 on the wide face of the Park side, 1 on each narrow side exposure, and 7 on the wide face with setbacks.
- Forum - 10 total - 3 images on wide face of Park side, 1 on each narrow side exposure, 1 on either side of arched exposure, and 3 on the arched section.

Communication to all building occupants for all windows to be closed the day the images are taken will be required. These images will be taken when the outdoor conditions are optimum: Overcast Sky and Outdoor Temperature below 40°F degrees. The commissioning report will
indicate the reference point from where the images were taken from so that the process can be repeated every three years. The report will include the color images and technical write-up defining what the images indicate and will reference the outdoor conditions at the time of the imaging. Any deficiencies will be noted and examined for possible remedies.

**ECM 3: Controls and Energy Management System Upgrade and Expansion**

**First Year – Measurement & Verification Plan**

An M&V Plan using IPMVP Option “B” is to be used for savings determination for this ECM. An outline for the plan is shown below –

- The boundary of this ECM was drawn to include only the maintenance of indoor temperatures over a range ambient temperatures during occupied and unoccupied periods;
- The baseyear energy use is based upon the following – Occupied set points are maintained during unoccupied hours throughout the building; Outside air remains constant as a percentage of total air flow; and Cooling, heating and humidification energy consumption will take place as a function of outside airflow.
- Energy savings from this measure are derived from these factors – Night setback will lower space heating and cooling energy consumption during unoccupied hours; Valve off of the steam supply at times when no additional heat is required in the building will reduce the counter-productive transfer of heat to the space and the cooling systems by way of conductive transfer, deteriorating valves, inappropriate heating systems setpoints, inappropriate cooling system setpoints, and so forth. Electric consumption for chilled water use to offset nuisance heating will be reduced; Electric consumption for DX cooling to offset nuisance heating will be reduced; Steam use for heating will be reduced.
- The conditions for the baseyear were chosen as the common set of conditions for calculating current energy use. The post-retrofit energy use, and the reported savings, will be determined on the basis of the baseyear conditions as well; and
- All required operation and maintenance procedures will be conducted by DGS staff to ensure proper functioning of the systems and controls post-retrofit.

**Baseyear Energy Use**

The baseyear energy use takes into account the following major factors –

- Space temperature achieved;
- Outside air impact;
- Cooling offsets to nuisance heating.

The baseyear energy use during unoccupied hours is basically due to the total shell and roof load, on the basis of given setpoint during those hours and the outside air load. This would include cooling, heating and humidification loads. The baseyear temperatures are as denoted in the calculation sheets that are supporting the estimates of baseline and savings.

Initial readings have been taken using hand-held meters, and trends established, to provide an accurate indication of potential savings.
During final design, air velocities will be measured with a hot-wire anemometer, averaged and multiplied by the coil area. Variable volume coil flows will be measured at sequential static readings.

Post-Retrofit Energy Use
After installation and commissioning, the post-retrofit energy use will be determined from performance trends on the main steam, hot water and chilled water interfaces to the buildings, as well as the main AHUs. Hot-wire anemometer readings will be taken to confirm post-retrofit airflows.

The following information will be trended, monitored and used in energy calculations (defined in the IGA) to determine the energy savings annually –

I. Night setback (or set forward) during unoccupied hours;
II. Air flow (where possible) to unoccupied areas associated with outside air; and
III. Fan motor energy use.

**Applicable Systems**
- North Office Building – AHU-1 & AHU-2 supply and return fans
- East Wing Building – AHUs under Metasys control excepting Kitchen MUA fans
- Irvis Building - AHU-1& AHU-2; AHU-3, AHU-5 and , AHU-6
- Finance Office Building – AHU-A, AHU-B, AHU-C, AHU-D, AHU-E & AHU-F
- Forum Building – Auditorium AHU & Green Room AHU

IV. Economizer cycle operation; and
V. Chilled water usage.

**Applicable Systems**
- Finance Office Building - AHU-A, AHU-B, AHU-C, AHU-D, AHU-E & AHU-F

VI. Steam use; and
VII. Use of chilled water.

**Applicable Systems**
- Finance Office Building - AHU-A, AHU-B, AHU-C, AHU-D, AHU-E & AHU-F

VIII. Steam use; and
IX. Use of chilled water and/or DX cooling.

**Applicable Systems**
- Finance Office Building
- Forum Building

X. Reduced steam use.

**Applicable Systems**
- Finance Office Building
- Forum Building
All of the trend information will be compiled into standard Excel workbooks (used for IGA calculations) and used to calculate the achieved savings. Methodology for each calculation will also be listed there for review.

After installation and commissioning, the post-retrofit energy use will be determined as –
Baseyear Energy Use + Correction to Post-Retrofit Condition

Year 2 – 15 – Continuous Commissioning

Under continuous commissioning of the controls upgrades, CLT will perform quarterly analysis of the performance trends and override logs; a semi-annual review with ECC staff of all the setpoints and overrides; and annual review of the control sequences.

Personnel Involved
- CLT Lead Engineer
- Commissioning agent/Controls contractor
- DGS Appointed contact
- Building Manager(s)
- In-house Controls Technicians and operators

Commissioning Process
The controls upgrade and expansion is the most significant measure in terms of savings and scope. In order that the savings are realized as design, CLT will work with the building managers and in-house controls operators to better the EMS. Prior to each heating season, CLT lead engineer, controls vendor and DGS staff will assemble to remedy any shortcomings and brainstorm potential opportunities to better the system. This will help determine decisions made by the controls operators in managing the buildings, if those decisions are a hindrance to the proposed energy savings and sort out any other problems encountered over the season.

The CLT Lead engineer will work with the facility operating staff to solve any existing mechanical and control problems. The performance evaluation of the system will include quarterly evaluations of on-line performance trends on the main steam, hot water and chilled water interfaces to the buildings, as well as the main AHU’s. Evaluations shall include testing of functions critical to utility usage, including demand ventilation, economizer, and performance of steam, hot water and chilled water valves. Evaluations will occur at each seasonal change.

The results of the performance evaluations, schedule and over-ride reports, as well as any recommended modifications to the operation of the system will be reported to DGS.

After mechanical system and control system troubleshooting, CLT will determine the optimal control set point and/or schedules. These set points and schedules will be then programmed into the version modified by CLT/control contractor.

The version programmed by the controls contractor will be uploaded to the control system. The program will be loaded unit by unit. A comprehensive test will be performed to ensure proper functioning and the optimal set point and/or schedule.
The EMS will be used to trend key operation parameters. The EMS operators and CLT will examine the data periodically to identify any system faults and fine tune the system set points.

The following possible scenarios will be corrected/monitored by the commissioning process:

- VFD’s that run at a 100%;
- Night set-backs/time schedules (equipment operating schedules) not used;
- Equipment that is operating inefficiently due to improper operating strategies;
- Energy management systems that were never installed or programmed to take full advantage of their capabilities or which have degraded;
- Improper Sequence of Operation;
- Optimal schedules;
- Incorrect setpoints;
- Controls out of calibration;
- Simultaneous heating and cooling
- Static pressure higher than required in air and water systems
- Reset schedules for hot and chilled water as well as air flow
- Faulty control valves and dampers
- O.A. damper settings
- Failed pressure sensors;
- Failed CO2 sensors;
- Damper Actuators leaking; and
- Filters, coils status.

The commissioning report will detail the findings of the process for each affected system. CLT/controls vendor will evaluate quarterly schedule report, including hours of operation, occupied and unoccupied setpoints and evaluate quarterly over-ride report and performance trends for all major equipment, where applicable.

**ECM 4: VFD Installations on Fans**

**First Year – Measurement & Verification Plan**

An M&V Plan using IPMVP Option “B” is to be used for savings determination for this ECM. An outline for the plan is as follows –

- The boundary of this ECM is drawn to include only the ventilation systems, since the proposed implementation will only affect the power input to the fans, heating consumption, and cooling consumption.
- The base year fan loads will be determined through the testing and measurement procedure described. Base year consumption will be determined as the product of the baseline power input and the trended actual run hours at load.
- Instantaneous power measurements will be accomplished with a Fluke 41B Power/Harmonics Analyzer with voltage probes and clamp-on CT with instantaneous display of watts and kW.
- A savings report will be presented, if required, for each subsequent year by correlating the first year savings to appropriate unit costs.
- All required operation and maintenance procedures will be conducted by the facilities staff to ensure proper functioning of the system post-retrofit.
Baseline Energy Use
Initial readings have been taken using hand-held meters, and trends established, to provide an accurate indication of potential savings.

The baseline power input at various levels of load (i.e., flow, as indicated by the control signal) shall be determined through instantaneous measurements taken during final design. Also, air velocities will be measured with a hot-wire anemometer, averaged and multiplied by the coil area. Variable volume coil flows will be measured at sequential static readings.

Baseyear consumption will be determined as the product of the baseline power input at the average load and the trended actual run hours at load.

Baseyear Energy Use
Baseline power input for the fans will be established by actual field measurements. Measurements will be done by taking spot measurements with a kW power meter.

The kW demand for the fans is given by the following formula –
\[ kW = \frac{\text{Voltage}_{\text{phase-to-phase}} \times \text{Amperage} \times \text{Power Factor}}{1000} \]
The annual energy use in kWh for the fans is given by the following formula –
\[ \text{kWh} = \frac{[\text{Voltage}_{\text{phase-to-phase}} \times \text{Amperage} \times \text{Power Factor} \times \text{Hours of Operation}]}{1000} \]
Hours of operation will be totalized based on post-retrofit trending.

Post-Retrofit Energy Use
After installation and commissioning, the post-retrofit energy use will be determined from the following–
KWh consumption of the fans will be totalized from trends via the EMS.
Outdoor air temperatures will be monitored via EMS trends.

Routine Adjustments
If there is any discrepancy between the assumptions made by the VFD calculation worksheet and the actual observations recorded by the DDC system, routine adjustments may be required to bring post-retrofit energy use to the conditions of the baseyear.

Savings
The difference between the kWh consumption for the existing system and the new system is the motor energy reduction. Cost savings due to this measure are determined as the product of the savings in demand and energy multiplied by the established unit costs for each month. The savings amount will be determined by the following equations –

\[ \text{Fan Energy Reduction (in kWh) = fan \ kWh}_{\text{baseyear}} - \text{fan \ kWh}_{\text{post-retrofit}} \]
\[ \text{Fan Energy Reduction (in kW/month) = Fan \ kW}_{\text{baseyear}} - \text{Fan \ kW}_{\text{post-retrofit}} \]
\[ \text{Fan Cost Savings} = \text{Fan Energy Reduction (in kWh)} \times \text{Electric Rate ($/kWh)} \]
\[ + \sum (\text{Fan kW savings}_{\text{month1}}, \text{Fan kW savings}_{\text{month2}} \ldots \text{Fan kW savings}_{\text{monthn}}) \]
Where n=months 1 through 12
Year 2 – 15 – Continuous Commissioning
Under continuous commissioning of the VFD installations, CLT will perform a semi-annual review of all the setpoints, performance trends, override logs, and annual review of the control sequences.

Personnel Involved
- CLT Lead Engineer
- Commissioning agent/Controls contractor
- DGS Appointed contact
- Building Manager(s)
- In-house Controls Technicians and operators

Commissioning Process
The CLT Lead engineer will work with the facility operating staff to solve any existing mechanical and control problems. The performance evaluation of the system will include quarterly evaluations of on-line performance trends of VFD kW.

After mechanical system and control system troubleshooting, CLT will determine the optimal control set point and/or schedules. These set points and schedules will be then programmed into the version modified by CLT/control contractor.

The version programmed by the controls contractor will be uploaded to the control system. The program will be loaded unit by unit. A comprehensive test will be performed to ensure proper functioning and the optimal set point and/or schedule.

The EMS will be used to trend key operation parameters. The EMS operators and CLT will examine the data periodically to identify any system faults and finetune the system set points.

The following possible scenarios will be corrected/monitored by the commissioning process:
- VFD’s that run at a 100%;
- Night set-backs/time schedules (equipment operating schedules) not used;
- Equipment that is operating inefficiently due to improper operating strategies;
- Energy management systems that were never installed or programmed to take full advantage of their capabilities or which have degraded;
- Improper Sequence of Operation;
- Incorrect setpoints; and
- Controls out of calibration.

The commissioning report will detail the findings of the process for each affected system. CLT/controls vendor will evaluate quarterly schedule report, including hours of operation, occupied and unoccupied setpoints. Any changes to the setpoints/control sequences will be recorded for future reference.

ECM 7: Steam Trap Replacement

First Year – Measurement & Verification Plan
An M&V Plan using IPMVP Option “A” is to be used for savings determination. For this ECM, measurements will be taken on a statistically-representative sample (or better) of the steam trap population as a basis for extrapolating savings. Under this procedure, each trap identified during the survey will be documented as to the type, size, location and function. Temperature and/or sonic measurements will be taken by experienced technicians competent in the assessment of stream trap operation, testing procedure(s), failure mode(s), and proper application methodology. Failure rates recorded from the survey will be carried forward with a conservative diversity rate to the entire steam trap group. The proposed rates of loss using the chosen technology will be calculated and averaged as an offset to savings. The hour groups will be agreed upon between DGS and CLT.

An outline of the plan is shown below –

- The boundary of this ECM is drawn to include only the traps documented during the investment grade audit;
- Trap performance will be verified pre-implementation by surveying a sample representative of the total trap population;
- As part of commissioning and M&V, post-implementation measurements will be done on a sample group to provide a level of comfort that the savings are realized.
- The baseyear conditions are those of the time period preceding efforts to remedy the failures identified as a result of the proposal or IGA. In most cases, the baseline will be the period immediately preceding the decision to proceed with the project. The results from the steam trap survey are extrapolated to the entire population and summarized in the calculations attached to this ECM;
- Trap performance will be verified post-implementation by spot checking a sample group of traps after installation and commissioning on site;
- The conditions for the baseyear were chosen as the common set of conditions for calculating current energy use. The post-retrofit energy use, and the reported savings, will be determined on the basis of the baseyear conditions as well; and
- All required operation and maintenance procedures will be conducted by DGS staff to ensure proper functioning of the steam traps post-retrofit.

**Baseyear Energy Use**

Baseyear steam use will be derived from past year’s data provided by the customer. The testing of 100% of the non-radiator traps and approximately 50% of the radiator traps, which determined the existing failure rates, will be used to arrive at the total figure for steam being wasted (see IGA). The following equation calculates the total steam lost for each type of trap –

- For “failed open” traps – Steam Wasted = Steam Capacity (lb/hr) * # of Traps * Hr/Year * % Blowing Loss * average load rate * condensate heat utilization rate
- For “leaking” traps – Steam Wasted = Steam Capacity (lb/hr) * # of Traps * Hr/Year * % Leaking Loss * average load rate * condensate heat utilization rate
- Heat utilization rates for condensate depend upon the level of insulation, venting, return / waste / recovery characteristics of the condensate system, as well as the heating loads and thermostatic control characteristics of the spaces through or below which condensate piping passes.
Post-retrofit Energy Use
The post-retrofit steam consumption will guarantee no steam wasted, i.e. a sample of the traps will be tested to demonstrate no leaking or blowing losses. The post sample will include 50% of the non-radiator traps and 10% of the radiator traps.

Routine Adjustments
Routine adjustments may be required to bring post-retrofit steam use to the conditions of the baseyear.

Savings
The savings for this ECM will be represented by the avoided Steam waste, as calculated in the Baseyear.

Year 2 – 15 – Continuous Commissioning
Under continuous commissioning of the steam traps, the DGS facility personnel will perform a temperature and ultrasonic test of a sample of the trap population annually, as directed by CLT, and repair/replace all faulty traps.

Personnel Involved
- CLT Project Manager
- DGS Appointed contact
- Building Manager(s)
- In-house Plumbers

Commissioning Process
On an annual basis, DGS will conduct a thorough temperature and ultrasonic test of the sample steam trap population to verify leaking and blowing losses and repair/replace failed or leaking traps. The testing will be conducted by DGS staff with the help of the Fluke T-5 meter. Any training needed to operate the meter will be provided by CLT. The Fluke T-5 meter measures temperature and detects leaks by noise.

CLT will develop an audit of the sample traps that need to be tested based on the size and the duty of the traps. This audit will be different for every following year so as to make sure that every trap is tested at least once in a four-year test cycle, starting two years after installation. The sample trap population will be derived on basis of the following –

- Large seasonal traps will be tested every two years
- The annual sample population will consist of at least 25% of the small radiator traps

A commissioning report detailing the traps inspected, temperatures observed (if recorded), pictures taken (if any) and traps to be replaced (if any) will presented on an annual basis.

ECM 9: Insulate bare piping, steam fittings and valves

First Year – Measurement & Verification Plan
An M&V Plan developed using IPMVP Option “A” is to be used for savings determination. For this ECM, partial measurement is deemed to provide adequate accuracy since there are multiple similar piping, valves and strainers throughout the project.

An outline of the plan is shown below –

- The boundary of this ECM will be drawn to include only the bare piping, valves and strainers identified during the investment grade audit;
- The baseyear conditions are those of the time period immediately preceding the decision to proceed with the project. The result below will be extrapolated to arrive at baseyear conditions –
  - Piping Heat Loss is based on the following factors:
    - Material of pipe
    - Surface area of Bare Piping
    - Steam Pressure
    - Ambient Temperature
- Insulation performance will be verified post-implementation by re-surveying the previously bare piping, valves and fittings after installation and commissioning on site. External temperature of the insulated areas and steam pressure will be recorded. The conditions for the baseyear are chosen as the common set of conditions for calculating current energy use. The post-retrofit energy use, and the reported savings, will be determined on the basis of the baseyear conditions as well; and
- All required operation and maintenance procedures will be conducted by DGS staff to ensure insulation and removable blankets remain in place post-retrofit.

**Baseyear Energy Use**

Baseyear steam use will derived from data provided by the customer. The following equation calculates the total steam lost for each insulation application—

For bare piping the calculation methodology and a listing of the variables used to determine the energy savings were obtained using values from the 3EPlus® insulation thickness software. The software was used to obtain the values for heat loss in the piping system based on the temperature and diameter of the bare pipe. For the bare valves and fittings the following equation calculates the total steam lost for each insulation application –

\[
\text{Bare fitting} = 25 \times (\text{Temp of bare fitting} - \text{Ambient air Temp}) / (0+ (25/3.2))
\]

\[
\text{Insulated Fitting} = 0.26 \times (\text{Temp of bare fitting} - \text{Ambient air Temp}) / (1+ (0.26/3.2))
\]

Heat loss Savings = (Bare – Insulated) x Annual hours of use for the application

**Post-retrofit Energy Use**

External temperature of the insulated areas and steam pressure will be recorded. The post-retrofit steam consumption will guarantee reduced heat loss from the areas where insulation is applied.

**Routine Adjustments**

Routine adjustments may be required to bring post-retrofit steam use to the conditions of the baseyear.

**Savings**
The savings for this ECM will be represented by the avoided steam waste, as calculated in the Baseyear.

**Year 2 – 15 – Continuous Commissioning**

Under continuous commissioning of the insulated piping, CLT and DGS facility personnel will perform an annual visual inspection of steam piping and fittings and report any areas that need re-insulation.

**Personnel Involved**
- CLT Lead Engineer
- DGS Appointed contact
- Building Manager(s)

**Commissioning Process**
On an annual basis, CLT will conduct a thorough audit of the insulated steam piping to verify insulation surface areas, integrity of the design criteria and temperature of the insulated areas.

The following will be verified -
- Verify the rigid fiberglass insulation with an exterior covering abutting the existing insulation; and
- External temperatures of any suspect insulation areas will be measured to verify that the temperatures are within the acceptable range.

A commissioning report detailing the areas inspected, temperatures observed (if any), pictures taken (if any) and areas to be re-insulated (if any) will presented on an annual basis.

**ECM 10: Water Conservation Program**

**First Year - Measurement & Verification Plan**

An M&V Plan using IPMVP Option “A” is to be used for savings determination for this ECM. An outline for the plan is as follows –
- The boundary of this ECM is drawn to include only the restroom fixture (toilets, urinals, and faucets) retrofits;
- The water use, pre and post, will be based on actual flow measurements;
- The use/day and facility occupancy figures will be stipulated on the basis of industry standards and DGS agreed upon quantities;
- The operating conditions for the baseyear are chosen as the common set of conditions for calculating current water use. The post-retrofit water use, and the reported savings, will be determined on the basis of the baseyear conditions as well;
- All required operation and maintenance procedures will be conducted by the facilities staff to ensure proper functioning of the post-retrofit.

**Baseyear Water Use**
Water use is calculated for each fixture type: toilets, urinals, faucets, etc. The consumption rate will be determined by measuring the flow rates and gallons per flush of a representative sample of each fixture type. Faucet flow rates will be measured
using a calibrated flow container. Faucets flow rates are taken by turning the valve a quarter turn. Tank type toilets are measured by using a flush meter or by using a water meter connected to the supply line. Flush valve type toilets are measured by flushing the contents into a calibrated bucket, using the flush meter, or by plugging the trap-way and collecting the flushed water into a wet vac.

The average flow rate and flush volume for each fixture type is then used to represent the population baseline flow rate. Post-retrofit measurements will also be measured in this manner.

Usage profile for these sanitary fixtures is based on three parameters: population, female to male ratio and the frequency of use of these fixtures. The population includes all personnel and visitors.

Following are the equations used to calculate the baseline consumption –

\[
TUPD = \text{Female} \times (NUPD) + \text{Male} \times NUPD
\]

Where –
- \(TUPD\) = Total use per day for toilets, urinals, aerators or showerheads
- \(\text{Female}\) = Number of Female Staff, Visitors and Residents
- \(\text{Male}\) = Number of Male Staff, Visitors and Residents
- \(NUPD\) = Number of uses per day

Toilets and Urinals –
\[
UFV_{\text{base}} = Q_{\text{base}} \times TUPD \times \text{Occ}
\]

Where –
- \(UFV_{\text{base}}\) = Annual toilet and urinal baseline water use (gal/yr)
- \(Q_{\text{base}}\) = Flow rate (gallons per flush)
- \(TUPD\) = Total use per day (flushes per day)
- \(\text{Occ}\) = Occupancy schedules (days per year)

Faucets and Showers –
\[
UAS_{\text{base}} = Q_{\text{base}} \times TUPD \times MPU \times DPY
\]

Where –
- \(UAS_{\text{base}}\) = Annual baseline fixture water use (gal/yr)
- \(Q_{\text{base}}\) = Flow rate (gal/min)
- \(TUPD\) = Total use per day (use/day)
- \(\text{MPU}\) = Use rate (min/use)
- \(\text{Occ}\) = Occupancy schedules (day/yr)

Kitchen Trough & Disposal –
\[
UK_{\text{base}} = Q_{\text{base}} \times TUPD \times MPU \times DPY
\]

Where –
- \(UK_{\text{base}}\) = Annual kitchen water use (gal/yr)
- \(Q_{\text{base}}\) = Flow rate (gal/min)
- \(TUPD\) = Total use per day (use/day)
- \(\text{MPU}\) = Use rate (min/use)
- \(\text{Occ}\) = Occupancy schedules (day/yr)

Total Baseline Water Consumption
\[
WC_{\text{base}} = UFV_{\text{base}} + UAS_{\text{base}} + UK_{\text{base}} + UL_{\text{base}}
\]

Where –
- \(WC_{\text{base}}\) = Total Annual Baseline Water Consumption (gal/yr)
- \(UFV_{\text{base}}\) = Annual toilet and urinal baseline water use (gal/yr)
- \(UAS_{\text{base}}\) = Annual baseline faucet and shower water use (gal/yr)
**Post-Retrofit Water Use**

The post-implementation consumption is calculated using the same equation, but with the reduced flow rates. The manufacturers’ certified flows will be confirmed after implementation with measurements.

There are additional savings resulting from the existing toilets and urinals that currently leak (assumed as 2% on the basis of industry standard). After implementation, the existing fixtures will be replaced with new fixtures that reduce leaks (~1%).

The following equation is used to calculate post-installation water consumption –

\[
WC_{\text{post}} = UFV_{\text{post}} + UAS_{\text{post}} + UK_{\text{post}} + UL_{\text{post}}
\]

Where –

- \(WC_{\text{post}}\) = Total Post Water Consumption (gal/yr)
- \(UFV_{\text{post}}\) = Annual toilet and urinal post water use (gal/yr)
- \(UAS_{\text{post}}\) = Annual fixture post water use (gal/yr)
- \(UL_{\text{post}}\) = Annual post water leaks (gal/yr)

**Routine Adjustments**

Routine adjustments may be required to bring post-retrofit water use to the conditions of the baseyear, especially if there are any changes to occupancy or schedule.

**Savings**

The savings are the difference between the baseline consumption (toilets, urinals, and faucets) and the post-retrofit consumption. The following equations are used to calculate water and water cost savings.

Water Savings –

\[
WS = (WC_{\text{base}} - WC_{\text{post}}) \times \text{Water Cost}
\]

**Year 2 – 15 – Continuous Commissioning**

Under continuous commissioning of the water conservation program, CLT and DGS facility personnel will perform an annual visual inspection of the installed fixtures to detect leaks and improper replacement parts.

**Personnel Involved**

- CLT Lead Engineer
- DGS Appointed contact
- DGS Purchasing Department
- Building Manager(s)
- In-House Plumbers

**Commissioning Process**

The O&M manual provided by CLT for this ECM will include a list of the installed fixtures and the recommended replacement parts for each fixture type. This O&M manual will serve as a purchasing guide and direct as to what type of fixtures and accessory parts are required in case a replacement is desired at a particular location.
The building managers and in-house plumbers will be an important part of this process. Building managers can stipulate the type of fixtures and accessories to be purchased based on CLT’s design. They have to be aware that they do an “in-kind” replacement of the water fixtures and any discrepancies are reported to the purchasing department.

On an annual basis, CLT and the building managers will conduct a walkthrough of all the buildings to ensure that the water savings are not compromised by water fixtures and accessories which do not comply with the original design. In the event that non-compliant parts are found, CLT will investigate the problem and address how it can be avoided in the future.

Based on the walkthrough, the commissioning report will detail the findings and suggest corrective action in case of any deficiencies/inconsistencies.

**ECM 12: Chiller Plant – 2 Chiller Replacements with VFD Option (NEW)**

**First Year – Measurement & Verification Plan**

An M&V Plan using IPMVP Option “B” is to be used for savings determination for this ECM. An outline for the plan is as follows –

- The boundary of this ECM was drawn to isolate the chiller plant, since the proposed implementation will only affect the electricity (kWh) consumption of the chillers and pumps. The load to the plant will not be affected by this measure.
- The baseyear energy consumption rates in kW/ton for refrigeration (chilled water cooling), heat rejection, condenser pumping, chilled water circulation, etc., will be calculated from actual chiller operational logs and DDC system trends for the chilled water plant provided by DGS. Instantaneous measurements were taken on a daily basis and trended by the chiller plant DDC system and utilized in the spreadsheet model for calculating savings. The resulting kW/ton rates (including operational deficiencies, auxiliary loads, etc., will be applied to the on-going trend of plant loading in ton-hours to determine the baseline.
- The following parameters shall be monitored through the DDC system on an ongoing basis –
  - Date & Time of day
  - Outside Air temperature
  - (new) chiller Amperage, kW & Voltage
  - Entering & Leaving Chilled Water Temperature
  - Entering & Leaving Condenser Water Temperature
  - Specific auxiliary equipment (pumps, tower fans, etc. on-line)
- On-going loads were chosen as the common set of conditions for calculating base-line and post-retrofit energy use. The post-retrofit energy use, and the reported savings, will be determined on the basis of the baseyear consumption rates, post retrofit consumption rates, and post-retrofit chilled water system loading.
- A savings report will be presented annually for the subsequent years by monitoring consumption through the DDC system. Output from the chiller will be trended through the DDC system at 15-minute intervals. The total post-implementation kWh will be given by the following formula (35,040 equals the number of 15 minute intervals per year) –
35,040
\[ k\text{Wh}_{\text{post-retrofit}} = \sum_{n=1}^{\infty} kWn \times 15\text{ min/}(60\text{ min/hr}) \]

- All required operation and maintenance procedures will be conducted by the chiller plant staff to ensure proper functioning of the chillers and auxiliaries post-retrofit.

**Baseyear Energy Use**

Baseyear energy use for the chiller is established by applying trended / measured present operations to the trended profiles of cooling load.

The kW demand in each month of chiller operation begins with the following formula applied to each leg of the power supply –

\[ kW = \frac{(\text{Voltage}_{\text{phase-to-phase}} \times \text{Amperage} \times \text{Power Factor})}{1000} \]

This calculation is summed for each leg of the service and multiplied by the number of chillers on-line. Similar calculations are executed for each required auxiliary. The number of chillers and attending auxiliaries on-line at any time in the baseyear will be identified through a table or formula indexed to time/temperature/occupancy from the trends supplied by DGS.

The annual electric consumption for the chillers is given by multiplying baseline incremental power (kW/ton) at steps of 10% to the ton-hours generated at those steps of load for each of the chillers & auxiliaries on-line in the baseline mode. Auxiliary use will be determined on the basis of present operations and include the additional “standby” equipment on-line as necessitated by the unreliable chillers. Auxiliary consumption will be determined as the measured power use by fixed consumers multiplied by the totalized hours of use for that equipment set.

**Post-retrofit Energy Use**

After installation and commissioning, the post-retrofit energy use will be determined as following:

- Peak chiller kW = peak kWh / hr recorded in the trends over the interval of coincident peak billing demand
- Chiller kWh = actual chiller kWh totalized by the DDC system
- Auxiliary kWh = totalized hours of operation for each fixed consumer x the measured power consumption rate for that equipment set

**Routine Adjustments**

The calculations of baseline and retrofit demand and consumption may be adjusted to compensate for seasonal irregularities or significant changes in the operation of the chiller plant, as well as changes to the load handled by the plant.

**Savings**

The difference between the kWh consumption for the existing chillers and auxiliaries and the new chillers and auxiliaries is the energy reduction. The differences in equipment power input over the coincident peak interval constitute the avoided peak demand for each month.
Cost savings due to this measure shall be calculated on the basis of the PPL LP6 tariff, including hours of use and incremental costs for each bin. Dollar savings will be calculated by constructing a baseline bill each month and a post retrofit bill using the differences in peak demand and total consumption.

**Year 2 – 15 – Continuous Commissioning**

Under continuous commissioning of the Chiller plant, CLT will perform an semi-annual review of all the setpoints, performance trends, override logs and control sequences. Included in the commissioning process will be an interactive training sessions for the chiller plant staff.

**Personnel Involved**
- CLT Lead Engineer
- Commissioning agent/Controls contractor (when necessary)
- DGS Appointed contact
- Chiller Plant Controls Technicians and operators

**Commissioning Process**

The CLT Lead engineer will work with the chiller plant staff to solve any existing mechanical and control problems. After mechanical system and control system troubleshooting, CLT will determine the optimal chiller staging. These set points and schedules will be then programmed into the version modified by CLT/control contractor.

The version programmed by the controls contractor will be uploaded to the control system. The program will be loaded unit by unit. A comprehensive test will be performed to ensure proper functioning and the optimal staging.

It is important to follow the operating procedures recommended by the manufacturer and CLT’s engineering design. Under the commissioning process, calibration of the temperature, pressure and current sensors and flow switches will be done if necessary. The temperature sensors are important for maintaining efficient operation.

The EMS will be used to trend key operation parameters. The EMS operators and CLT will examine the data periodically to identify any system faults and finetune the system set points.

The following possible scenarios will be corrected/monitored by the commissioning process:
- Identify maintenance/replacements, have addressed by Chiller plant staff;
- Optimal chiller staging;
- Reset schedules for chilled water temperatures as well as air flow;
- Supply temperatures;
- VFD’s that run at a 100%;
- Equipment operating schedules not used;
- Equipment that is operating inefficiently due to improper operating strategies;
- Improper Sequence of Operation;
- Incorrect setpoints; and
- Controls out of calibration.
It is important to follow the operating procedures recommended by the manufacturer and as per CLT’s design to achieve the energy savings. CLT will conduct an interactive session with the chiller plant staff on an annual basis to make sure the chiller plant is operating as efficiently as possible and as per the guidelines set by CLT. Any concerns will be addressed by CLT’s lead engineer.

The commissioning report will detail the findings of the process for each affected system. Any changes to the setpoints/control sequences will be recorded for future reference.
APPENDIX K

EQUIPMENT LEASE RIDER

This Lease Rider to the Lease identified in Schedule I (the “Lease”) is intended by the parties to the Lease, as a matter of convenience and consistency, to amend and supplement the provisions of, and to supersede and control over any conflicting provisions of, the Lease.

ARTICLE I

DEFINITIONS

Section 1.01. Definitions. The following terms used in this Lease Rider will have the meanings indicated below unless the context clearly requires otherwise:

- “Act” means Chapter 37D, Hawaii Revised Statutes.
- “Additional Rental” means all amounts, other than Base Rental, payable to Lessee to Lessor or its assignee pursuant to the Lease.
- “Assignment Agreement” means that certain assignment agreement identified in Schedule I to this Lease Rider, as originally executed or as it may from time to time be amended or supplemented as provided therein.
- “Available Funds” means funds appropriated or otherwise made available, from time to time, by the State legislature to pay amounts due under the Lease for the Fiscal Year in which such payments are due.
- “Base Rental” means the rental, with separately stated principal and interest components, payable by Lessee to Lessor or its assignee pursuant to the Lease.
- “Code” means the Internal Revenue Code of 1986, as it may be amended from time to time, and any successor statute.
- “Defeasance Obligation” means obligations of, or guaranteed as to principal and interest by, the United States or any agency or instrumentality thereof when such obligations are backed by the full faith and credit of the United States.
- “Equipment” means the personal property identified in Schedule I to this Lease Rider.
- “Expiry Date” means the date identified in Schedule I to this Lease Rider.
- “Fiscal Year” means the fiscal year of the Lessee, which at the date of the Lease is the period from July 1 to and including the following June 30.
“Lease” means that certain Lease identified in Schedule I to this Lease Rider, as originally executed or as it may form time to time be amended or supplemented as provided herein.

“Lease Interests” means any fractional interests in the Lease, including, but not limited to, interests evidenced by trust receipts, beneficial interests or certificates of participation.

“Lease Term” means the term of the Lease as determined pursuant to Article III of this Lease Rider.

“Legislature” means the Legislature of the State of Hawaii.

“Lessee” means the State of Hawaii, by its department identified in Schedule I to this Lease Rider.

“Lessor” means that certain Lessor identified in Schedule I to this Lease Rider.

“Net Proceeds” means the amount remaining from the gross proceeds of any insurance claim or condemnation award made in connection with the Equipment, after deducting all expenses (including attorneys’ fees) incurred in the collection of such claim or award.

“Purchase Price” means, as of any date of calculation, the amount identified in Schedule I to this Lease Rider and made a part hereof, which Lessee may pay or cause to be paid as of such date to Lessor in order to purchase the Equipment or a specific item thereof pursuant to Section 6.01 of this Lease Rider or to purchase the Lessor’s interest in the Lease pursuant to Section 6.02 of this Lease Rider.

“Rental Payments” means the aggregate of the Base Rental and the Additional Rental payable by Lessee pursuant to the Lease.

“Rule 15c2-12” means Rule 15c2-12 adopted by the Securities and Exchange Commission under the Securities Exchange Act of 1934, as the same may be amended from time to time.

“State” means the State of Hawaii.

**ARTICLE II**

**REPRESENTATIONS AND COVENANTS OF LESSEE; REPRESENTATIONS AND COVENANTS OF LESSOR**

**Section 2.01. Representations and Covenants of Lessee.** Notwithstanding any other provision of the Lease, the Lessee makes the following, and only the following, representations, covenants and warranties for the benefit of Lessor and its assignee:
(a) The Lessee is authorized under the Constitution and laws of the State to enter into the
Lease and the transactions contemplated by the Lease and to perform all of its obligations under
the Lease.

(b) The Lessee has been duly authorized to execute and deliver the Lease, and all
requirements have been met, conditions have been satisfied and procedures have occurred
necessary for the Lease to be a valid obligation of the Lessee, and, when duly executed and
delivered by the Lessor, approved by the Director of Finance of the State and approved as to
form and legality by the Attorney General of the State, the Lease will be the valid obligation
of the State, subject to bankruptcy, insolvency, reorganization, arrangement, fraudulent
conveyance, moratorium and other laws relating to or affecting creditors’ rights, to the
application of equitable principles, to the exercise of judicial discretion in appropriate cases and
to the limitations on legal remedies against the State.

(c) The execution and delivery of the Lease will not conflict with or constitute a breach of
or default under any law, administrative regulation, judgment, decree, loan agreement,
indenture, bond, note, resolution, agreement or other instrument to which the State is a party
or is otherwise subject.

(d) All approvals, authorizations, consents and orders of any governmental authority,
legislative body, board, agency or commission having jurisdiction which would constitute a
condition precedent to or the absence of which would materially and adversely affect the due
performance by the State of its obligation under the Lease have been duly obtained except for
such approvals, consents and orders as may be required under any state or federal securities
laws in connection with any disposition of the Lease or Lease Interests by the Lessor.

(e) During the term of the Lease, the Equipment will be used by Lessee only for the
purpose of performing one or more governmental or proprietary functions of Lessee consistent
with the permissible scope of Lessee’s authority

(f) The Lessee will not make any use of any proceeds of the Lease Interests received by the
Lessee or any other funds of the Lessee which will cause the Lease Interests to be “arbitrage
bonds” subject to federal income taxation by reason of Section 148 of the Code, or which will
cause such obligations to be “federally guaranteed” and subject to inclusion in gross income for
federal income tax purposes by reason of Section 149(b) of the Code. To that end, so long as
any Rental Payments are unpaid, the Lessee, with respect to such proceeds and such other
funds, will comply with all requirements of Sections 148 and 149(b) of the Code and all
regulations of the United States Department of the Treasury issued thereunder to the extent
that such requirements are, at the time, applicable and in effect.

(g) The Lessee further covenants that it will not use or permit the use of the Equipment by
any person in such manner or to such extent as would result in the inclusion of interest received
hereunder in gross income for federal income tax purposes under Section 103 of the Code.

Section 2.02. Representations and Covenants of Lessor. In addition to any other
representations or covenants contained in the Lease, the Lessor makes the following
representations, covenants, warranties and acknowledgments for the benefit of Lessee:
(a) The Lessor covenants and agrees to undertake all responsibility for compliance with state and federal securities laws, including, but not limited to, responsibility for all actions of any placement agent or underwriter in connection with the offer or sale of Lease Interests. The Lessor acknowledges and agrees that the Lessee has made no undertaking to provide nor has it approved any disclosure or other information for use in connection with the sale of Lease Interests by the Lessor, and Lessor agrees to be fully responsible for any and all disclosure provided to potential investors. The Lessor represents and warrants that the sale of Lease Interests is exempt from Rule 15c2-12, and acknowledges and agrees that the Lessee has made no undertaking to provide any continuing or other disclosure following the execution and delivery of the Lease.

(b) The Lessor acknowledges and agrees that the approval by the State of the sale of Lease Interests pursuant to Section 7.01 of this Lease Rider is not approval of the form of Lease Interests or the form or sale of Lease Interests or the form or content of any disclosure documents used in connection with the offer or sale of Lease Interests.

(c) The Lessor covenants and agrees to prominently disclose the following in any disclosure document used in connection with the offer or sale of Lease Interests:

The payment of rent by the State pursuant to the Lease is subject to appropriation by the State Legislature. The State may choose not to appropriate rent for any number of reasons and such failure does not constitute a default on the part of the State. The State has not participated in the creation of, or passed on or approved, the [insert appropriate reference to the Lease Interests] or this [insert title of disclosure document], which were created and prepared, respectively, by the [insert name of Lessor or vendor] or its placement agent/underwriter without any review, input or information supplied by the State. The State has made no representation as to the tax-exemption of the interest component of the rent.

(d) Lessor acknowledges and agrees that any placement agent or underwriter of Lease Interests is acting as such agent of Lessor and not as agent of Lessee.

(e) Lessor acknowledges and agrees that Lessee has made no representation nor supplied any opinion as to whether the interest component of the rent is exempt from any federal or state taxation, and that the Lessee is under no obligation to pay or advance any funds (other than any arbitrage rebate required under Section 148(f) of the Code) to preserve or defend any such tax exemption.

(f) The Lessor shall, on behalf of the Lessee, pursuant to Section 149(e) of the Code, prepare and file an information return (Form 8038-G) with the United States Department of the Treasury no later than the 15th day of the second calendar month after the close of the calendar quarter in which the Lease is executed and delivered by the Lessee.

ARTICLE III
LEASE TERM

Section 3.01. Commencement of Lease Term. The Lease Term shall commence on the date of execution of the Lease and shall terminate on the Expiry Date, unless such term is sooner terminated as
set forth in Section 6.06 of this Lease Rider. If prior to the Expiry Date the Rental Payments shall have been fully paid and retired, then the term of the Lease shall end simultaneously therewith.

Section 3.02. Termination of Lease Term. The Lease Term and the Lease will terminate as to the entire Equipment [or as to a specific item thereof as provided in Section 4.02(a)] upon the earliest of any of the following events:

(a) The exercise by Lessee of the option to purchase all or a specific item of the Equipment granted under the provisions of Article VI of this Lease Rider;

(b) A default by Lessee and Lessor’s election to terminate the Lease pursuant to the terms and provisions of the Lease;

(c) The termination of this Lease pursuant to Section 4.03 of this Lease Rider in the event on non-appropriation of funds by the Legislature; or

(d) The payment by Lessee of all Rental Payments and any other amounts authorized or required to be paid by Lessee under the Lease.

(e) When there shall have been deposited with a third-party escrow agent at or prior to the Expiry Date or a date when Lessee may exercise its option to purchase the Equipment or a specific item thereof, in trust for the benefit of the Lessor or its assignee and irrevocably appropriated and set aside to the payment of the Base Rental payments or Purchase Price, sufficient moneys and Defeasance Obligations, the principal of and interest on which when due will provide money sufficient to pay all principal, premium, if any, and interest components of the Base Rental payments when due, to and including the Expiry Date or the date when Lessee has elected to exercise its option to purchase the Equipment, as the case may be; then and in that event all right, title and interest of Lessor and its assignee in and under the Lease and all obligations of Lessee under the Lease shall thereupon cease, terminate, become void and be completely discharged and satisfied (except for the right of Lessor and the obligation of Lessee to have such moneys and such Defeasance Obligations applied to the payment of the Base Rental payments or Purchase Price) and Lessor’s interest in and title to the Equipment or applicable item thereof shall be transferred and conveyed to Lessee. In such event, Lessor shall cause an accounting for such period or periods as may be requested by Lessee to be prepared and filed with Lessee and all such instruments as may be necessary or desirable to evidence such discharge and satisfaction and transfer of the Equipment or applicable item thereof, and Lessor shall pay over to Lessee as an overpayment of Base Rental payments all such moneys or such Defeasance Obligations held by it or its assignee pursuant hereto other than such moneys and such Defeasance Obligations as are required for the payment of the Base Rental payments or the Purchase Price, which moneys and Defeasance Obligations shall continue to be held in trust for the payment of Base Rental payments or the Purchase Price, and shall be applied by Lessor to the payment of the Base Rental payments or the Purchase Price.

ARTICLE IV
RENTAL PAYMENTS

Section 4.01. Rental Payments Limited to Available Funds; Rental Payments to Constitute a Current Expense of the Lessee; No Pledge.
(a) The obligation of Lessee to make Rental Payments shall be limited to Available Funds. In no circumstance shall Lessee be obligated to pay amounts due under the Lease from any source other than Available Funds, nor shall the Legislature be obligated in any manner to appropriate or otherwise make available Available Funds.

(b) The Lessor and the Lessee understand and intend that the obligation of the Lessee to pay Rental Payments under the Lease shall constitute a current expense of the Lessee and shall not in any way be construed to be a debt of the Lessee, nor shall the Lease be construed to be an instrument of indebtedness, in contravention of any applicable constitutional or statutory limitation or requirement concerning the creation of indebtedness by the Lessee. The Lease shall not create an immediate indebtedness for any aggregate payment which may become due during the Lease Term. The Lease, including the obligation of the Lessee to pay the principal and interest components of Base Rental payments, shall not be an obligation for which the full faith and credit of the Lessee is pledged. The Lessor and its assignee shall have no claim or lien on any revenues or other moneys of the Lessee, except Available Funds. Notwithstanding any other provisions of the Lease, the Lessee, in its discretion, may terminate the Lease as set forth in Section 4.03 of this Lease Rider.

ARTICLE V
MAINTENANCE; MODIFICATION; TAXES; INSURANCE AND OTHER CHARGES

Section 5.01. Insurance. Notwithstanding any other provision of the Lease, the Lessee shall be required to procure or cause to be procured and maintain or cause to be maintained for the Equipment throughout the Lease Term only the following insurance:
(a) Insurance against loss or damage to the Equipment caused by fire or lightning, with extended coverage insurance on the Equipment; and

(b) Liability insurance

It is expressly agreed that the State may be self-insured for all of the above coverage upon providing a certificate of self-insurance to the Lessor.

Section 5.02. Damage, Destruction and Condemnation; Use of Net Proceeds. Unless Lessee shall have exercised its option to purchase the Equipment by making payment of the Purchase Price as provided herein, if prior to the termination of the Lease Term (a) the Equipment or any portion or item thereof is destroyed (in whole or in part) by fire or other casualty, or (b) title to, or the temporary use of, the Equipment or any portion or item thereof or the estate of Lessee or Lessor in the Equipment or any portion or item thereof shall be taken under the exercise of the power of eminent domain by any governmental body or by any person, firm, or corporation acting under governmental authority, Lessee and Lessor will cause the Net Proceeds of any insurance claim or condemnation award to be applied to the prompt repair, restoration, modification, improvement or replacement of the Equipment or the applicable portion or item thereof. Any balance of the Net Proceeds remaining after such work has been completed shall be paid to Lessee.

Alternatively, if the proceeds of such insurance together with any other moneys then available for the purpose are at least sufficient to prepay an aggregate principal amount of Base Rental attributable to the portion or item of the Equipment so destroyed or damaged (determined by reference to the proportion which the acquisition, construction and installation cost of such portion or item of the Equipment bears to the acquisition, construction and installation cost of the entire Equipment), Lessee may, at its option, elect not to repair, restore, modify, improve or replace the damaged or destroyed or condemned portion or item of the Equipment thereupon shall cause said proceeds to be used for the prepayment of Base Rental.

ARTICLE VI
OPTION TO PURCHASE

Section 6.01. Option to Purchase Equipment. Lessor’s interest in and title to the Equipment or specific items thereof will be transferred, conveyed and assigned to Lessee and the Lease shall terminate with respect thereto upon the occurrence of the event set forth in subparagraph (a) of this Section 6.01, and at the option of Lessee, Lessor’s interest in and title to the Equipment or specific items thereof will be transferred, conveyed and assigned to Lessee and the Lease shall terminate upon the occurrence of the events set forth in subparagraphs (b) or (c©) of this Section 6.01:

(a) At the end of the Lease Term, upon payment in full of all Rental Payments due under the Lease pertaining thereto; or

(b) On the dates set forth in Schedule I to this Lease Rider, upon payment of the then applicable Purchase Price as set forth in Schedule I to this Lease Rider, provided that Lessee shall
deliver or cause to be delivered notice to Lessor of the intention to exercise the right to make such payment pursuant to this Section 6.01(b) not less than 45 days prior to such date of payment; or

(c) When there shall have been deposited with a third-party escrow agent at or prior to the Expiry Date or a date when Lessee may exercise its option to purchase the Equipment or a specific item thereof, in trust for the benefit of the Lessor or its assignee and irrevocably appropriated and set aside to the payment of the Base Rental payments or Purchase Price, sufficient moneys and Defeasance Obligations, the principal of and interest on which when due will provide money sufficient to pay all principal, premium, if any, and interest components of the Base Rental payment when due to and including the Expiry Date or the date when Lessee has elected to exercise its option to purchase the Equipment, as the case may be.

Section 6.02. Option to Purchase Lease. In lieu of purchasing Lessor’s interest in and title to the Equipment or specific items thereof pursuant to Section 6.01 of this Lease Rider, at the option of Lessee, Lessor’s or its assignee’s interest in and title to the Lease shall be transferred, conveyed and irrevocably assigned to a purchaser (or agent or assignee) designated by Lessee upon the occurrence of the events set forth in subparagraphs (b) or (c©) of Section 6.01 of this Lease Rider and notice to the Lessor of Lessee’s intention to exercise its option under this Section 6.02.

ARTICLE VII
ASSIGNMENT AND INDEMNIFICATION

Section 7.01. Assignment by Lessor. This Lease (including Lease Interests) may be sold, assigned or otherwise disposed of by Lessor. Lessee agrees to execute all documents, including notices of assignment and chattel mortgages or financing statements which may be reasonably requested by Lessor or its assignee to protect their interests in the Equipment and in the Lease during the Lease Term. By approval of the Lease, the Director of Finance approves the sale, assignment or disposition of the lease and Lease Interests by the Lessor as required by the Act.

Section 7.02. Indemnification.

(a) The Lessor agrees to indemnify and hold harmless the Lessee against any and all losses, claims, actions, suits, judgements, demands, damages, liabilities, liens and expenses (including reasonable attorneys fees and reasonable costs of investigation) of any nature arising out of or relating to the sale, assignment or other disposition of the Lease or Lease Interests, including without limitation those caused by any actions or omissions or alleged actions or omissions of any underwriter or placement agent for the Lease or Lease Interests or those caused by any untrue statement or alleged untrue statement of a material fact contained in any disclosure used in connection with the offer or sale of Lease Interests, or caused by any omission or alleged omission to state therein a material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading in any material respect. The provisions of this paragraph shall survive termination of the Lease with respect to events occurring prior to such termination.

(b) Lessee shall be responsible for damages or injury caused by Lessee’s agents, officers, and employees in the course of the employment, and for any and all claims, actions, losses,
damages, obligations, liabilities and liens arising out of the possession, operation, use or return of the Equipment (excluding, however, any of the foregoing resulting from the negligence or willful misconduct of Lessor or its assignee), all to the extent that the Lessee’s liability for such damage or injury has been determined by a court or otherwise agreed to by the Lessee, and the Lessee shall pay for such damages or injuries to the extent permitted by law and approved by the Hawaii legislature. The provisions of this paragraph shall survive termination of the Lease with respect to events occurring prior to such termination.

ARTICLE VIII
MISCELLANEOUS

Section 8.01. Substitution of Equipment. Any provision in the Lease restricting or otherwise limiting the ability of the Lessee to obtain other equipment in substitution of the Equipment is hereby repealed and deleted in its entirety from the Lease.

Section 8.02. Notices. All notices, certificates or other communications hereunder shall be sufficiently given and shall be deemed given when delivered by registered mail, postage prepaid, or by telecopy (in which case, telephone or mechanical confirmation is required), to the addresses set forth in Schedule I to this Lease Rider.

Section 8.03. Severability. If any one or more of the agreements, conditions, covenants or terms required herein to be observed or performed by or on the part of Lessor or the Lessee shall be contrary to law, then such agreement or agreements, such condition or conditions, such covenant or covenants or such term or terms shall be null and void and shall be deemed separable from the remaining agreements, conditions, covenants and terms hereof and shall in no way affect the validity hereof.

Section 8.04. Amendments. The Lease may be amended in writing as may be mutually agreed by Lessor or its assignee and Lessee, subject to the written approval of the Director of Finance of the State and to the approval of form and legality of the Attorney General of the State.

Section 8.05. Execution in Counterparts. The Lease may be simultaneously executed in counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.

Section 8.06. Applicable Law. The Lease shall be governed by and construed in accordance with the laws of the State of Hawaii. With respect to any suit, action or proceedings (collectively, the “Proceedings”) relating to the Lease, the Lessor hereby irrevocably submits to the jurisdiction of the state courts of the State in Honolulu, Hawaii, and waives any objection which it may have at any time to the laying of venue of any Proceedings brought in such courts, waives any claim that the Proceedings have been brought in an inconvenient forum and further waives the right to object, with respect to the Proceedings, that such court does not have any jurisdiction of the Lessor.

Section 8.07. Successors and Assigns. This Lease Rider shall inure to the benefit of and shall be binding upon the Lessor and the Lessee and their respective successors and assigns (including, without limitation, any purchaser or assignee of the Lease or Lease Interests).
IN WITNESS WHEREOF, Lessor has executed this Lease Rider in its name and Lessee has executed this Lease Rider in its name, all as of the date first above written.

“LESSOR”

By ______________________________

“LESSEE”

By ______________________________

APPROVED PURSUANT TO CHAPTER 37D, HRS:

By ______________________________
   Director of Finance

APPROVED PURSUANT TO CHAPTER 37D, HRS:

By ______________________________
   Attorney General
**SCHEDULE I**

I. Definitions

“Assignment Agreement” means ________________________________________________

“Expiry Date” means __________________________________________________________

“Lease” means _______________________________________________________________

“Lessor” means _______________________________________________________________

“Department” means __________________________________________________________

II. Equipment

<table>
<thead>
<tr>
<th>Description of Item</th>
<th>Cost of Item</th>
<th>Total Cost of Equipment</th>
</tr>
</thead>
</table>

III. Purchase Price

<table>
<thead>
<tr>
<th>Date</th>
<th>Purchase Price³</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Premium</th>
<th>Principal</th>
<th>(% of Principal)</th>
<th>Total Price</th>
</tr>
</thead>
</table>

IV. Addresses (including telephone and fax numbers)

    Lessor:

    Lessee:

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³In the event less than the entire Equipment is to be purchased, the principal portion of the purchase price for the item or items, respectively, shall be the proportion which the cost of such item or items as set forth in “Part II - Equipment” of this Schedule I bears to the cost of the entire Equipment as set forth in “Part II - Equipment” of this Schedule I.
APPENDIX L

EQUIPMENT LEASE PURCHASE AGREEMENT

THIS EQUIPMENT LEASE PURCHASE AGREEMENT (the “Agreement”), is dated as of __________, between ____________________________, a company organized and existing under the laws of the State ______________, as Lessor (“Lessor”), and the STATE OF HAWAII, by the Department of Budget and Finance, as Lessee (“Lessee”), wherein the parties hereby agree as follows:

Section 1. Definitions. The following terms will have the meanings indicated below unless the context clearly requires otherwise:

“Agency” means ____________________________, which will use the Equipment, as hereinafter defined, and which will be responsible to provide funds to the Department, as hereinafter defined, or at the Department’s direction to pay amounts due under this Agreement.

“Agreement” means this Equipment Lease Purchase Agreement and any other schedule, exhibit or escrow agreement made a part hereof by the parties hereto, together with any amendments to this Agreement.

“Available Funds” means funds appropriated or otherwise made available, from time to time, by the Legislature to pay amounts due under this Agreement for the fiscal year of Lessee in which such payments are due.


“Commencement Date” is the date when the term of this Agreement and Lessee’s obligation to pay rent commences, which date will be the earlier of (i) the date on which the Equipment is accepted by Lessee in the manner described in Section 13, or (ii) the date on which sufficient moneys to purchase the Equipment are deposited for that purpose with an escrow agent.

“Contract” means any contract or contract with the Vendor for the acquisition and installation of the Equipment.

“Department” means the Department of Budget and Finance of the State of Hawaii, as defined in section 37D-1, Hawaii Revised Statutes.

“Equipment” means the property described on the Equipment Schedule attached hereto as Exhibit A, and all replacements, substitutions, repairs, restorations, modifications, attachments, accessions, additions and improvements thereof or thereto.
“Event of Default” means an Event of Default described in Section 35.

“Issuance Year” is the calendar year in which the Commencement Date occurs.

“Lease Term” means the Original Term and all Renewal Terms, but ending on the occurrence of the earliest event specified in Section 6.

“Legislature” means the Legislature of the State of Hawaii.

“Lessee” means the entity described as such in the first paragraph of this Agreement, its successors and its assigns.

“Lessor” means the entity described as such in the first paragraph of this Agreement, its successors and its assigns.

“Maximum Lease Term” means the Original Term and all Renewal Terms through the Renewal Term including the last Rental Payment Date set forth on the Payment Schedule.

“Net Proceeds” means the amount remaining from the gross proceeds of any insurance claim or condemnation award after deducting all expenses (including attorneys’ fees) incurred in the collection of such claim or award.

“Original Term” means the period from the Commencement Date until the end of the fiscal year of Lessee in effect at the Commencement Date.

“Payment Schedule” means the schedule of Rental Payments and Purchase Price set forth on Exhibit B.

“Purchase Price” means the amount set forth on the Payment Schedule that Lessee may, at its option, pay to Lessor to purchase the Equipment.

“Renewal Terms” means the optional renewal terms of this Agreement, each having a duration of one year and a term co-extensive with Lessee’s fiscal year.

“Rental Payment Dates” means the dates set forth on the Payment Schedule on which Rental Payments are due.

“Rental Payments” means the basic rental payments payable by Lessee pursuant to Section 9.

“State” means the State of Hawaii.
“Vendor” means the manufacturer of the Equipment as well as the agents or dealers of the manufacturer from whom Lessor purchased or is purchasing the Equipment, as listed on Exhibit A.

Section 2. Representations and Covenants of Lessee. Lessee represents, warrants and covenants for the benefit of Lessor as follows:

(a) Lessee has a substantial amount of one or more of the following sovereign powers: (a) the power to tax, (b) the power of eminent domain and (c) police power.

(b) Lessee is authorized under the Constitution and laws of the State to enter into this Agreement and the transactions contemplated by this Agreement and to perform all of its obligations under this Agreement.

(c) Lessee has been duly authorized to execute and deliver this Agreement, and all requirements have been met, conditions have been satisfied and procedures have occurred necessary for this Agreement to be a valid obligation of Lessee, and, when duly executed and delivered by Lessor, and approved as to form and legality by the Attorney General of the State, this Agreement will be the valid obligation of the State, subject to bankruptcy, insolvency, reorganization, arrangement, fraudulent conveyance, moratorium and other laws relating to or affecting creditors’ rights, to the application of equitable principles, to the exercise of judicial discretion in appropriate cases and to the limitations on legal remedies against the State.

(d) The execution and delivery of this Agreement will not conflict with or constitute a breach of or default under any law, administrative regulation, judgment, decree, loan agreement, indenture, bond, note, resolution, agreement or other instrument to which the State is a party or is otherwise subject.

(e) All approvals, authorizations, consents and orders of any governmental authority, legislative body, board, agency or commission having jurisdiction which would constitute a condition precedent to or the absence of which would materially and adversely affect the due performance by Lessee of its obligations under this Agreement have been duly obtained except for such approvals, consents and orders as may be required under any state or federal securities laws in connection with any disposition of this Agreement by Lessor.

(f) During the term of this Agreement, the Equipment will be used by Agency only for the purpose of performing one or more governmental or proprietary functions of Agency consistent with the permissible scope of Agency’s authority.

(g) No event or condition that constitutes, or with the giving of notice or the lapse of time or both would constitute, an Event of Default exists at the Commencement Date.
(h) Lessee has, in accordance with the requirements of law, fully budgeted and appropriated sufficient funds for the current fiscal year to make the Rental Payments scheduled to come due during the Original Term and to meet its other obligations for the Original Term, and such funds have not been expended for other purposes.

(i) Lessee has complied with such public bidding requirements as may be applicable to this Agreement and the acquisition by Lessee of the Equipment hereunder.

(j) There is no action, suit, proceeding, inquiry or investigation, at law or in equity, before or by any court, public board or body, pending or threatened against or affecting Lessee, nor to the best knowledge of Lessee is there any basis therefor, wherein an unfavorable decision, ruling or finding would materially adversely affect the transactions contemplated by this Agreement or any other document, agreement or certificate which is used or contemplated for use in the consummation of the transactions contemplated by this Agreement or materially adversely affect the financial condition or properties of Lessee.

(k) The Equipment described in this Agreement is essential to the function of Lessee or to the service Lessee provides to its citizens. Lessee has an immediate need for, and expects to make immediate use of, substantially all the Equipment, which need is not temporary or expected to diminish in the foreseeable future.

(l) Neither the payment of the Rental Payments hereunder nor any portion thereof is (i) secured by any interest in property used or to be used in a trade or business of a non-exempt person (within the meaning of Section 103 of the Code) or in payments in respect of such property or (ii) derived from payments in respect of property, or borrowed money, used or to be used in a trade or business of a non-exempt person (within the meaning of Section 103 of the Code). No portion of the Equipment will be used directly or indirectly in any trade or business carried on by any non-exempt person (within the meaning of Section 103 of the Code).

(m) Lessee will comply with all applicable provisions of the Code, including without limitation Sections 103 and 148 thereof, and the applicable regulations of the Treasury Department to maintain the exclusion of the interest components of Rental Payments from gross income for purposes of federal income taxation.

(n) Lessee will use the proceeds of this Agreement as soon as practicable and with all reasonable dispatch for the purpose for which this Agreement has been entered into. No part of the proceeds of this Agreement will be invested in any securities, obligations or other investments or used, at any time, directly or indirectly, in a manner which, if such use had been reasonably anticipated on the date of issuance of this Agreement, would have caused any portion of this Agreement to be or become “arbitrage bonds” within the meaning of Section 103(b)(2) or Section 148 of the Code and the applicable regulations of the Treasury Department.
(o) Lessee has never failed to appropriate or otherwise make available funds sufficient to pay rental or other payments coming due under any lease purchase, installment sale or other similar agreement.

(p) The useful life of the Equipment will not be less than the Maximum Lease Term.

(q) The application, statements and credit or financial information submitted by Lessee to Lessor are true and correct and made to induce Lessor to enter into this Agreement and the escrow agreement, if any, and Lessee has experienced no material change in its financial condition since the date(s) of such information.

(r) Lessee has provided Lessor with audited financial statements through June 30, 2008. Lessee has experienced no material change in its financial condition or in the revenues expected to be utilized to meet Rental Payments due under the Agreement since June 30, 2008, except.

(s) Lessee shall pay the excess (if any) of the actual costs of acquiring the Equipment under the Agreement over the amount deposited by Lessor in the escrow fund, if any, established under any related escrow agreement and interest earnings thereon.

(t) The total approximate cost of the energy savings project as to which the Equipment is a part is $_______. Lessee will contribute approximately $_____________ in other funds of Lessee toward that project.

Section 3. Certification as to Arbitrage. Lessee hereby represents as follows:

(a) The estimated total costs of the Equipment will not be less than the total principal portion of the Rental Payments.

(b) The Equipment has been ordered or is expected to be ordered within six months of the Commencement Date, and the Equipment is expected to be delivered and installed, and the Vendor fully paid, within eighteen months of the Commencement Date.

(c) Lessee has not created or established, and does not expect to create or establish, any sinking fund or other similar fund (i) that is reasonably expected to be used to pay the Rental Payments, or (ii) that may be used solely to prevent a default in the payment of the Rental Payments.

(d) The Equipment has not been and is not expected to be sold or otherwise disposed of by Lessee, either in whole or in major part, prior to the last maturity of the Rental Payments.

(e) To the best of our knowledge, information and belief, the above expectations are reasonable.
Section 4. Lease of Equipment. Lessor hereby demises, leases and lets the Equipment to Lessee, and Lessee rents, leases and hires the Equipment from Lessor, in accordance with the provisions of this Agreement, for the Lease Term.

Section 5. Lease Term. The Original Term of this Agreement will commence on the Commencement Date and will terminate on the last day of Lessee’s current fiscal year. The Lease Term may be continued, solely at the option of Lessee, at the end of the Original Term or any Renewal Term for an additional Renewal Term up to the Maximum Lease Term. At the end of the Original Term and at the end of each Renewal Term until the Maximum Lease Term has been completed, Lessee will be deemed to have exercised its option to continue this Agreement for the next Renewal Term unless Lessee has terminated this Agreement pursuant to Section 6 or Section 31. The terms and conditions during any Renewal Term will be the same as the terms and conditions during the Original Term, except that the Rental Payments will be as provided in the Payment Schedule.

Section 6. Termination of Lease Term. The Lease Term will terminate upon the earliest of any of the following events:

(a) the expiration of the Original Term or any Renewal Term of this Agreement and the nonrenewal of this Agreement in the event of nonappropriation of funds pursuant to Section 8;

(b) the exercise by Lessee of the option to purchase the Equipment under the provisions of Section 31 and payment of the Purchase Price and all amounts payable in connection therewith;

(c) a default by Lessee and Lessor’s election to terminate this Agreement under Section 36; or

(d) the payment by Lessee of all Rental Payments authorized or required to be paid by Lessee hereunder during the Maximum Lease Term.

Section 7. Continuation of Lease Term. Lessee currently intends, subject to the provisions of Section 8 and Section 12, to continue the Lease Term through the Original Term and all of the Renewal Terms and to pay the Rental Payments hereunder. Lessee reasonably believes that Available Funds in an amount sufficient to make all Rental Payments during the Original Term and each of the Renewal Terms can be obtained. Lessee intends that amounts sufficient to make such payments be included in the Governor’s budget request to the Legislature for each fiscal period for adoption in accordance with applicable provisions of the laws of the State; provided that, it is understood that the Legislature shall not be obligated to adopt such budget or to appropriate or otherwise make available, Available Funds; and provided further that, Lessee expressly reserves the right to terminate this Agreement as set forth in Section 8.
Section 8. Nonappropriation. In the event sufficient Available Funds shall not be appropriated by the Legislature for the payment of the Rental Payments required to be paid in the next succeeding fiscal year of Lessee to continue the leasing of the Equipment, Lessee may terminate this Agreement, without penalty, as to all of the Equipment at the end of the then-current fiscal year, and Lessee shall not be obligated to make payment of the Rental Payments provided for in this Agreement beyond the then current fiscal year. Lessee agrees to deliver written notice to Lessor of such termination as soon as practicable after such failure to appropriate. Such termination shall not be considered or treated as a default under this Agreement or any other document. If this Agreement is terminated under this Section, Lessee agrees to surrender to Lessor, at the location or locations in the State specified by Lessor, the Equipment, in good order and condition and in a state of repair that is consistent with the requirements of this Agreement, prudent use and maintenance, except for reasonable wear and tear, and to cease use of the Equipment.

Section 9. Rental Payments. Lessee will pay Rental Payments in lawful money of the United States of America to Lessor in the amounts and on the dates set forth on the Payment Schedule. Rental Payments will be in consideration for Lessee’s use of the Equipment during the fiscal year in which such payments are due. Any Rental Payment not received on or before its due date will bear interest at the rate of 10% per annum or the maximum amount permitted by law, whichever is less, from its due date.

In the event that it is determined that any of the interest components of Rental Payments may not be excluded from gross income for purposes of federal income taxation, Lessee agrees to pay to Lessor promptly after any such determination and on each Rental Payment Date thereafter an additional amount determined by Lessor to compensate Lessor for the loss of such excludability (including without limitation, compensation relating to interest expense, penalties or additions to tax), which determination shall be conclusive absent manifest error.

Section 10. Interest Component. As set forth on the Payment Schedule, a portion of each Rental Payment is paid as, and represents payment of, interest.

Section 11. Rental Payments To Be Unconditional. Except as provided in Section 8, the obligations of Lessee to make Rental Payments and to perform and observe the other covenants and agreements contained herein shall be absolute and unconditional in all events without abatement, diminution, deduction, set-off or defense, for any reason, including without limitation any failure of the Equipment to be delivered or installed, any defects, malfunctions, breakdowns or infirmities in the equipment or any accident, condemnation or unforeseen circumstances.

Section 12. Rental Payments Limited to Available Funds; Rental Payments to Constitute a Current Expense of Lessee; No Pledge.
(a) The obligation of Lessee to make Rental Payments shall be limited to Available Funds. In no circumstance shall Lessee be obligated to pay amounts due under this Agreement from any source other than Available Funds, nor shall the Legislature be obligated in any manner to appropriate or otherwise make available, Available Funds.

(b) Lessor and Lessee understand and intend that the obligation of Lessee to pay Rental Payments under this Agreement shall constitute a current expense of Lessee and shall not in any way be construed to be a debt of Lessee, nor shall this Agreement be construed to be an instrument of indebtedness, in contravention of any applicable constitutional or statutory limitation or requirement concerning the creation of indebtedness by Lessee. This Agreement shall not create an immediate indebtedness for any aggregate payment which may become due during the Lease Term. This Agreement, including the obligation of Lessee to pay the principal and interest components of Rental Payments, shall not be an obligation for which the full faith and credit of Lessee is pledged. Lessor shall have no claim or lien on any revenues or other moneys of Lessee, except Available Funds. Notwithstanding any other provisions of this Agreement, Lessee, in its discretion, may terminate this Agreement as set forth in Section 8.

Section 13. Delivery, Installation and Acceptance of the Equipment. Lessee will order the Equipment, cause the Equipment to be delivered and installed at the location specified on Exhibit A and pay any and all delivery and installation costs in connection therewith. When the Equipment has been delivered and installed, Lessee will immediately accept the Equipment and evidence said acceptance by executing and delivering to Lessor an acceptance certificate in form and substance acceptable to Lessor. After it has been installed, the Equipment will not be moved from the location specified on Exhibit A without Lessor’s consent, which consent will not be unreasonably withheld.

Section 14. Enjoyment of Equipment. Lessor hereby covenants to provide Lessee with quiet use and enjoyment of the Equipment during the Lease Term, and Lessee will peaceably and quietly have and hold and enjoy the Equipment during the Lease Term, without suit, trouble or hindrance from Lessor, except as otherwise expressly set forth in this Agreement.

Section 15. Right of Inspection. Lessor will have the right at all reasonable times during regular business hours to enter into and upon the property of Lessee for the purpose of inspecting the Equipment.

Section 16. Use of the Equipment. Lessee will not install, use, operate or maintain the Equipment improperly, carelessly, in violation of any applicable law or in a manner contrary to that contemplated by this Agreement. Lessee will obtain all permits and licenses, if any, necessary for the installation and operation of the Equipment. In addition, Lessee agrees to comply in all respects (including, without limitation, with respect to the use, maintenance and operation of each item of the Equipment) with all applicable laws,
regulations and rulings of any legislative, executive, administrative or judicial body; provided, however, that Lessee may contest in good faith the validity or application of any such law, regulation or ruling in any reasonable manner that does not, in the opinion of Lessor, adversely affect the interest of Lessor in and to the Equipment or its interest or rights under this Agreement.

Section 17. Maintenance of Equipment. Lessee agrees that it will, at Lessee’s own cost and expense, maintain, preserve and keep the Equipment in good repair, working order and condition. Lessor will have no responsibility to maintain, or repair or to make improvements or additions to the Equipment.

Section 18. Title to the Equipment. During the Lease Term, title to the Equipment and any and all additions, repairs, replacements or modifications will vest in Lessee, subject to the rights of Lessor under this Agreement; provided that title will thereafter immediately and without any action by Lessee vest in Lessor, and Lessee will immediately surrender possession of the Equipment to Lessor upon (a) any termination of this Agreement other than termination pursuant to Section 31 or (b) the occurrence of an Event of Default. It is the intent of the parties hereto that any transfer of title to Lessor pursuant to this Section will occur automatically without the necessity of any bill of sale, certificate of title or other instrument of conveyance. Lessee will, nevertheless, execute and deliver any such instruments as Lessor may request to evidence such transfer. Lessee, irrevocably designates, makes, constitutes and appoints Lessor and its assignee as Lessee’s true and lawful attorney (and agent in-fact) with power, at such time of termination or times thereafter as Lessor in its sole and absolute discretion may determine, in Lessee’s or Lessor’s or such assignee’s name, to endorse the name of Lessee upon any bill of sale, document, instrument, invoice, freight bill, bill of lading or similar document relating to the Equipment in order to vest title in Lessor and transfer possession to Lessor. As further security therefore, Lessee grants to Lessor a first priority security interest in the cash and negotiable instruments from time to time comprising each escrow fund established under any related escrow agreement and all proceeds (cash and non-cash) thereof, and agrees with respect thereto that Lessor shall have all the rights and remedies of a secured party.

Section 19. Security Interest. To secure the payment of all of Lessee’s obligations under this Agreement and to the extent permitted by law, Lessor retains a security interest constituting a first lien on the Equipment and on all additions, attachments and accessions thereto and substitutions therefor and proceeds therefrom. Lessee agrees to execute such additional documents in form satisfactory to Lessor, that Lessor deems necessary or appropriate to establish and maintain its security interest. Lessee agrees that financing statements may be filed with respect to the security interest in the Equipment.

Section 20. Personal Property. Lessor and Lessee agree that the Equipment is and will remain personal property. The Equipment will not be deemed to be affixed to or a part of the real estate on which it may be situated, notwithstanding that the Equipment or any part thereof may be or hereafter become in any manner physically affixed or attached to
such real estate or any building thereon. Upon the request of Lessor, Lessee will, at Lessee’s expense, furnish a waiver of any interest in the Equipment from any party having an interest in any such real estate or building.

Section 21. Liens, Taxes, Other Governmental Charges and Utility Charges. Lessee will keep the Equipment free and clear of all liens, charges and encumbrances, except those created under this Agreement. The parties to this Agreement contemplate that the Equipment will be used for a governmental or proprietary purpose of Lessee and, therefore, that the Equipment will be exempt from all property taxes and other similar charges. If the use, possession or acquisition of the Equipment is found to be subject to taxation in any form, Lessee will pay all taxes and governmental charges lawfully assessed or levied against or with respect to the Equipment. Lessee will pay all utility and other charges incurred in the use and maintenance of the Equipment. Lessee will pay such taxes and charges as the same become due; provided that, with respect to any such taxes and charges that may lawfully be paid in installments over a period of years, Lessee will be obligated to pay only such installments that accrue during the Lease Term.

Section 22. Insurance. At its own expense, Lessee will maintain (a) casualty insurance insuring the Equipment against loss or damage by fire and all other risks covered by the standard extended coverage endorsement then in use in the State and any other risks reasonably required by Lessor in an amount at least equal to the then applicable Purchase Price of the Equipment, and (b) liability insurance that protects Lessor from liability in all events in form and amount satisfactory to Lessor. It is expressly agreed that Lessee may be self-insured for all of the above coverage upon providing a certificate of self-insurance to Lessor. All insurance proceeds from casualty losses will be payable as hereinafter provided. Lessee will furnish to Lessor certificates evidencing such coverage throughout the Lease Term.

Section 23. Advances. In the event Lessee fails to maintain either the insurance required by this Agreement, pay taxes or charges required to be paid by it under this Agreement or fails to keep the Equipment in good repair and operating condition, Lessor may (but will be under no obligation to) purchase the required policies of insurance and pay the cost of the premiums on the thereof, pay such taxes and charges and make such Equipment repairs or replacements as are necessary and pay the cost thereof. All amounts so advanced by Lessor will become additional rent for the then current Original Term or Renewal Term. Lessee agrees to pay such amounts with interest thereon from the date paid at the rate of 10% per annum or the maximum permitted by law, whichever is less.

Section 24. Financial Information. As soon as practicable after receipt thereof by Lessee, Lessee will provide Lessor with current financial statements, budgets, proofs of appropriation for the ensuing fiscal year and such other financial information relating to the ability of Lessee to continue this Agreement as may be requested by Lessor.
Section 25. Liability of Lessee. Lessee shall be responsible for damages or injury caused by Lessee's agents, officers, and employees in the course of their employment, and for any and all claims, actions, losses, damages, obligations, liabilities and liens arising out of the possession, operation, use or return of the Equipment (excluding, however, any of the foregoing resulting from the negligence or willful misconduct of Lessor), all to the extent permitted by law and approved by the Legislature. The provisions of this paragraph shall survive termination of this Agreement with respect to events occurring prior to such termination.

Section 26. Risk of Loss. Lessee assumes, from and including the Commencement Date, all risk of loss of or damage to the Equipment from any cause whatsoever. No such loss of or damage to the Equipment nor defect therein nor unfitness or obsolescence thereof will relieve Lessee of the obligation to make Rental Payments or to perform any other obligation under this Agreement.

Section 27. Damage, Destruction, Condemnation; Use of Proceeds. If (a) the Equipment or any portion thereof is destroyed, in whole or in part, or is damaged by fire or other casualty, or (b) title to, or the temporary use of, the Equipment or any part thereof or the interest of Lessee or Lessor in the Equipment or any part thereof will be taken under the exercise of the power of eminent domain by any governmental body or by any person, firm or corporation acting under governmental authority, Lessee and Lessor will cause the Net Proceeds of any insurance claim or condemnation award to be applied to the prompt replacement, repair, restoration, modification or improvement of the Equipment, unless Lessee has exercised its option to purchase the Equipment pursuant to Section 31. Any balance of the Net Proceeds remaining after such work has been completed will be paid to Lessee.

Section 28. Insufficiency of Net Proceeds. If the Net Proceeds are insufficient to pay in full the cost of any repair, restoration, modification or improvement referred to in Section 26, Lessee will either (a) complete such replacement, repair, restoration, modification or improvement and pay any costs thereof in excess of the amount of the Net Proceeds, or (b) purchase Lessor’s interest in the Equipment pursuant to Section 31. The amount of the Net Proceeds, if any, remaining after completing such repair, restoration, modification or improvement or after purchasing the Equipment will be retained by Lessee. If Lessee will make any payments pursuant to this Section, Lessee will not be entitled to any reimbursement therefor from Lessor nor will Lessee be entitled to any diminution of the amounts payable under Section 9.

Section 29. Disclaimer of Warranties. LESSOR MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, AS TO THE VALUE, DESIGN, CONDITION, MERCHANTABILITY OR FITNESS FOR PARTICULAR USE OR PURPOSE OF THE EQUIPMENT OR AGAINST INFRINGEMENT, OR ANY OTHER WARRANTY OR REPRESENTATION WITH RESPECT THERETO. IN NO EVENT SHALL LESSOR BE LIABLE FOR ANY ACTUAL, INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGE IN CONNECTION WITH
Section 30. Vendor’s Warranties. Lessee may have rights under the contract evidencing the purchase of the Equipment; Lessee is advised to contact the Vendor for a description of any such rights. Lessor hereby assigns to Lessee during the Lease Term all warranties running from Vendor to Lessor. Lessor hereby irrevocably appoints Lessee its agent and attorney-in-fact during the Lease Term, so long as Lessee will not be in default hereunder, to assert from time to time whatever claims and rights (including without limitation warranties) related to the Equipment that Lessor may have against the Vendor. Lessee’s sole remedy for the breach of any such warranty, indemnification or representation will be against the Vendor, and not against Lessor. Any such matter will not have any affect whatsoever on the rights and obligations of Lessor with respect to this Agreement, including the right to receive full and timely payments hereunder. Lessee expressly acknowledges that Lessor makes, and has made, no representations or warranties whatsoever as to the existence or availability of such warranties by the Vendor.

Section 31. Purchase Option; One-Time Partial Payment. Lessee will have the option to purchase the Equipment, upon giving written notice to Lessor at least 30 days before the date of purchase, at the following times and upon the following terms:

(a) On any Rental Payment Date, upon payment in full of the Rental Payment then due hereunder plus all other amounts due hereunder plus the then-applicable Purchase Price to Lessor; or

(b) In the event of substantial damage to or destruction or condemnation (other than by Lessee or any entity controlled by or otherwise affiliated with Lessee) of substantially all of the Equipment, on the day Lessee specifies as the purchase date in Lessee’s notice to Lessor of its exercise of the purchase option, upon payment in full of the Rental Payment and all other amounts then due hereunder plus (i) the Purchase Price designated on the Payment Schedule for such purchase date if such purchase date is a Rental Payment Date or the Purchase Price for the immediately preceding Rental Payment Date if such purchase date is not a Rental Payment Date, and (ii) if such day is not a Rental Payment Date, an amount equal to the portion of the interest component of the Rental Payment scheduled to come due on the following Rental Payment Date accrued from the immediately preceding Rental Payment Date to such purchase date, computed on the basis of a 360-day year of twelve 30-day months.

Upon the exercise of the option to purchase set forth above, title to the Equipment will be vested in Lessee, free and clear of any claim by or through Lessor.

Lessee will have the option to prepay outstanding principal components of Rental Payments in an aggregate amount of not less than $1,000,000 and not more than
$5,000,000, upon giving written notice to Lessor at least 30 days before the date of prepayment, on any Rental Payment Date prior to September 1, 2012. Such option may be exercised only one time by Lessee. In the event of any such prepayment, the Payment Schedule will be revised as specified by Lessor.

Section 32. Determination of Fair Purchase Price. Lessee and Lessor hereby agree and determine that the Rental Payments hereunder during the Original Term and each Renewal Term represent the fair value of the use of the Equipment and that the amount required to exercise Lessee’s option to purchase the Equipment pursuant to Section 31 represents, as of the end of the Original Term or any Renewal Term, the fair purchase price of the Equipment. Lessee hereby determines that the Rental Payments do not exceed a reasonable amount so as to place Lessee under a practical economic compulsion to renew this Agreement or to exercise its option to purchase the Equipment hereunder. In making such determinations, Lessee and Lessor have given consideration to (a) the costs of the Equipment, (b) the uses and purposes for which the Equipment will be employed by Lessee, (c) the benefit to Lessee by reason of the acquisition and installation of the Equipment and the use of the Equipment pursuant to the terms and provisions of this Agreement, and (d) Lessee’s option to purchase the Equipment. Lessee hereby determines and declares that the acquisition and installation of the Equipment and the leasing of the Equipment pursuant to this Agreement will result in equipment of comparable quality and meeting the same requirements and standards as would be necessary if the acquisition and installation of the Equipment were performed by Lessee other than pursuant to this Agreement. Lessee hereby determines and declares that the Maximum Lease Term does not exceed the useful life of the Equipment.

Section 33. Assignment by Lessor. Lessor’s interest in, to and under this Agreement and the Equipment may be assigned and reassigned in whole or in part to one or more assignees by Lessor without the necessity of obtaining the consent of Lessee; provided that any assignment will not be effective until Lessee has received written notice of the name and address of the assignee. Lessee will retain all such notices as a register of all assignees and will make all payments to the assignee or assignees designated in such register. Lessee agrees to execute all documents, including notices of assignment and chattel mortgages or financing statements that may be reasonably requested by Lessor or any assignee to protect its interest in the Equipment and in this Agreement and agrees to the filing of financing statements with respect to the Equipment and this Agreement. Lessee will not have the right to and will not assert against any assignee any claim, counterclaim, defense, set-off or other right Lessee may have against Lessor.

Section 34. Assignment and Subleasing by Lessee. None of Lessee’s right, title and interest in, to and under this Agreement and the Equipment may be assigned or encumbered by Lessee for any reason, except that Lessee may sublease all or part of the Equipment if Lessee obtains the prior written consent of Lessor and an opinion of nationally recognized counsel in the area of tax exempt municipal obligations satisfactory to Lessor that such subleasing will not adversely affect the exclusion of the interest
components of the Rental Payments from gross income for federal income tax purposes. Any such sublease of all or part of the Equipment will be subject to this Agreement and the rights of Lessor in, to and under this Agreement and the Equipment.

Section 35. Events of Default Defined. Subject to the provisions of Section 8, any of the following will be “Events of Default” under this Agreement:

(a) Failure by Lessee to pay any Rental Payment or other payment required to be paid hereunder at the time specified herein;

(b) Failure by Lessee to observe and perform any covenant, condition or agreement on its part to be observed or performed, other than as referred to in Section 35(a), for a period of 30 days after written notice, specifying such failure and requesting that it be remedied, is given to Lessee by Lessor, unless Lessor will agree in writing to an extension of such time prior to its expiration; provided, however, if the failure stated in the notice cannot be corrected within the applicable period, Lessor will not unreasonably withhold its consent to an extension of such time if corrective action is instituted by Lessee within the applicable period and diligently pursued until the default is corrected;

(c) Any statement, representation or warranty made by Lessee in or pursuant to this Agreement or its execution, delivery or performance will prove to have been false, incorrect, misleading or breached in any material respect on the date when made;

(d) Any provision of this Agreement will at any time for any reason cease to be valid and binding on Lessee, or will be declared to be null and void, or the validity or enforceability thereof will be contested by Lessee or any governmental agency or authority if the loss of such provision would materially adversely affect the rights or security of Lessor, or Lessee will deny that it has any further liability or obligation under this Agreement;

(e) Lessee will (i) apply for or consent to the appointment of a receiver, trustee, custodian or liquidator of Lessee, or of all or a substantial part of the assets of Lessee, (ii) be unable, fail or admit in writing its inability generally to pay its debts as they become due, (iii) make a general assignment for the benefit of creditors, (iv) have an order for relief entered against it under applicable federal bankruptcy law, or (v) file a voluntary petition in bankruptcy or a petition or an answer seeking reorganization or an arrangement with creditors or taking advantage of any insolvency law or any answer admitting the material allegations of a petition filed against Lessee in any bankruptcy, reorganization or insolvency proceeding; or

(f) An order, judgment or decree will be entered by any court of competent jurisdiction, approving a petition or appointing a receiver, trustee, custodian or liquidator of Lessee or of all or a substantial part of the assets of Lessee, in each case without its application, approval or consent, and such order, judgment or decree will continue unstayed and in effect for any period of 30 consecutive days.
Section 36. Remedies on Default. Whenever any Event of Default exists, Lessor will have the right, at its sole option without any further demand or notice, to take one or any combination of the following remedial steps:

(a) By written notice to Lessee, Lessor may declare all Rental Payments and other amounts payable by Lessee hereunder to the end of the then current Original Term or Renewal Term to be due;

(b) With or without terminating this Agreement, Lessor may enter the premises where the Equipment is located and retake possession of the Equipment or require Lessee at Lessee’s expense to promptly return any or all of the Equipment to the possession of Lessor at the location or locations in the State specified by Lessor, and sell or lease the Equipment or, for the account of Lessee, sublease the Equipment, holding Lessee liable for the difference between (i) the Rental Payments and other amounts payable by Lessee hereunder plus the applicable Purchase Price, and (ii) the net proceeds of any such sale, lease or sublease (after deducting all expenses of Lessor in exercising its remedies under this Agreement, including without limitation, all expenses of taking possession, storing, reconditioning and selling or leasing the Equipment and all brokerage, auctioneers’ and attorneys’ fees) provided that the amount of Lessee’s liability under this subparagraph (b) shall not exceed the Rental Payments and other amounts otherwise due hereunder plus the remaining Rental Payments and other amounts payable by Lessee to the end of the then current Original Term or Renewal Term; and

(c) Lessor may take whatever other action at law or in equity may appear necessary or desirable to enforce its rights as the owner of the Equipment.

In addition, Lessee will remain liable for all covenants and indemnities under this Agreement and for all legal fees and other costs and expenses, including court costs, incurred by Lessor with respect to the enforcement of any of the remedies listed above or any other remedy available to Lessor.

Section 37. No Remedy Exclusive. No remedy herein conferred upon or reserved to Lessor is intended to be exclusive and every such remedy will be cumulative and will be in addition to every other remedy given under this Agreement or now or hereafter existing at law or in equity. No delay or omission to exercise any right or power accruing upon any default will impair any such right or power or will be construed to be a waiver thereof, but any such right and power may be exercised from time to time and as often as may be deemed expedient. In order to entitle Lessor to exercise any remedy reserved to it in this Agreement it will not be necessary to give any notice, other than such notice as may be required in this Agreement.

Section 38. Notices. All notices, certificates or other communications hereunder will be sufficiently given and will be deemed given when delivered or mailed by registered mail,
postage prepaid, to the parties at the addresses immediately after the signatures to this Agreement (or at such other address as either party hereto will designate in writing to the other for notices to such party), to any assignee at its address as it appears on the register maintained by Lessee.

**Section 39. Binding Effect.** This Agreement will inure to the benefit of and will be binding upon Lessor and Lessee and their respective successors and assigns.

**Section 40. Severability.** In the event any provision of this Agreement will be held invalid or unenforceable by any court of competent jurisdiction, such holding will not invalidate or render unenforceable any other provision hereof.

**Section 41. Entire Agreement.** This Agreement constitutes the entire agreement between Lessor and Lessee.

**Section 42. Amendments.** This Agreement may be amended, changed or modified in any manner by written agreement of Lessor and Lessee. Any waiver of any provision of this Agreement or any right or remedy hereunder must be affirmatively and expressly made in writing and will not be implied from inaction, course of dealing or otherwise.

**Section 43. Execution in Counterparts.** This Agreement may be simultaneously executed in several counterparts, each of which will be an original and all of which will constitute but one and the same instrument.

**Section 44. Captions.** The captions or headings in this Agreement are for convenience only and in no way define, limit or describe the scope or intent of any provisions or sections of this Agreement.

**Section 45. Applicable Law.** This Agreement will be governed by and construed in accordance with the laws of the State.

**Section 46. Electronic Transactions.** The parties agree that the transaction described herein may be conducted and related documents may be stored by electronic means. Copies, telecopies, facsimiles, electronic files and other reproductions of original executed documents shall be deemed to be authentic and valid counterparts of such original documents for all purposes, including the filing of any claim, action or suit in the appropriate court of law.

[Remainder of Page Intentionally Left Blank]
IN WITNESS WHEREOF, Lessor and Lessee have caused this Agreement to be executed in their corporate names by their duly authorized officers as of the date first above written.

INSERT NAME OF LESSOR

By: ________________________________

Name: ______________________________

Title: ______________________________

Address: ___________________________

STATE OF HAWAI‘I, by the Department of Budget and Finance

By: ________________________________

Name: ______________________________

Title: ______________________________

Address: ___________________________

______________________________

CERTIFICATE OF [AUTHORIZED OFFICIAL] OF LESSEE

I, the undersigned, do hereby certify (i) that the officer of Lessee who executed the foregoing Agreement on behalf of Lessee and whose genuine signature appears thereon, is the duly qualified and acting officer of Lessee as stated beneath his or her signature and has been authorized to execute the foregoing Agreement on behalf of Lessee, and (ii) that the fiscal year of Lessee is from _________________ to _________________.

DATED: _____________.

By: ________________________________

Name: ______________________________
Title:  

EXHIBIT A TO EQUIPMENT LEASE PURCHASE AGREEMENT

EQUIPMENT SCHEDULE

Energy savings improvements, as described in the Scope of Work Schedule attached hereto, which covers work to be done at the following locations:

__________________________

__________________________

__________________________
EXHIBIT B TO EQUIPMENT LEASE PURCHASE AGREEMENT

PAYMENT SCHEDULE

Principal Amount: $[Principal Amount]

Interest Rate: _____

Rental payments will be made in accordance with Section 9 and this Payment Schedule.

<table>
<thead>
<tr>
<th>Rental Payment Date</th>
<th>Total Rental Payment</th>
<th>Principal Portion</th>
<th>Interest Portion</th>
<th>Purchase Price</th>
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Lessee’s Closing Certificate

Re: Equipment Lease Purchase Agreement dated as of _______, between the State of Hawaii, by the Department of Budget and Finance, as lessee (“Lessee”), and __________, as lessor (“Lessor”) (the “Agreement”)

I, the undersigned, the duly appointed, qualified and acting __________________ (authorized officer) of the above-captioned Lessee do hereby certify as of __________, as follows:

(1) The Comptroller of the State of Hawaii has, in accordance with all requirements of law, approved and authorized the execution and delivery of the above-referenced Agreement and the related escrow agreement, if any, on behalf of Lessee by the following named representative of Lessee:

<table>
<thead>
<tr>
<th>Printed Name</th>
<th>Title</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>[The above signature line to be signed by person who executed the Equipment Lease Purchase Agreement and the escrow agreement, if any, on behalf of Lessee.]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(2) The above-named representative of Lessee held at the time of such authorization and holds at the present time the office designated above and the signature set forth opposite his or her name is the true and correct specimen of his or her genuine signature.

(3) The representative of Lessee named in (1) above and the officers or employees of Lessee from time to time holding the offices or titles set forth below were designated as authorized representatives of Lessee for the Agreement and the escrow agreement, if any (any of them acting alone), and each of the persons listed below is the current holder of the office or title indicated and the signature set forth opposite name of each of them is the true and correct specimen of his or her genuine signature:

<table>
<thead>
<tr>
<th>Title</th>
<th>Printed Name</th>
<th>Signature</th>
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</tbody>
</table>

(4) Attached hereto is evidence of the approval of the Comptroller referred to in (1) above.
(5) No event or condition that constitutes, or with the giving of notice or the lapse of
time or both would constitute, an Event of Default (as such term is defined in the
Agreement) exists at the date hereof.

(6) All insurance required in accordance with the Agreement is currently maintained by
Lessee.

(7) Lessee has, in accordance with the requirements of law, fully budgeted and
appropriated sufficient funds for the current fiscal year to make the Rental Payments
scheduled to come due during the Original Term and to meet its other obligations for
the Original Term (as such terms are defined in the Agreement), and such funds have
not been expended for other purposes.

(8) There is no proceeding pending or threatened in any court or before any
governmental authority or arbitration board or tribunal that, if adversely determined,
would adversely affect the transactions contemplated by the Agreement or the interest
of Lessor or its assigns, as the case may be, in the Equipment.

(9) The Equipment has not been the subject of a referendum that failed to receive the
approval of the voters of Lessee within the preceding four years.

(10) [Lessee initial here if this provision is applicable: __________]

        [Lessee initial here if this provision is NOT applicable: __________]

        Lessee hereby designates this Agreement as a “qualified tax-exempt obligation” as
defined in Section 265(b)(3)(B) of the Code. The aggregate face amount of all tax-exempt
obligations (excluding private activity bonds) issued or to be issued by Lessee and all
subordinate entities thereof during the Issuance Year is not reasonably expected to
exceed $30,000,000. Lessee and all subordinate entities thereof will not issue in excess of
$30,000,000 of qualified tax-exempt obligations (including this Agreement but excluding
private activity bonds) during the Issuance Year without first obtaining an opinion of
nationally recognized counsel in the area of tax-exempt municipal obligations acceptable
to Lessor that the designation of this Agreement as a “qualified tax-exempt obligation”
will not be adversely affected.

(11) The correct billing address for Rental Payments is as follows:

        __________________________________________

        __________________________________________

        __________________________________________
IN WITNESS WHEREOF, I hereunto set my hand and the seal of the governing body of Lessee the day and year first above written.

______________________________________________

Signature of [authorized official]

______________________________________________

Printed or typewritten title and name

Subscribed and affirmed before me this ____ day of __________, ________.

Signed: __________________________

My commission expires: ______________

(NOTARY SEAL)

Notary Certificate: __________________
ATTACHMENT TO

LESSEE’S CLOSING CERTIFICATE

COPY OF AUTHORIZATION DOCUMENT
(per Section 4)
Re: Equipment Lease Purchase Agreement dated as of ________
between the State of Hawaii, by the Department of Budget and
Finance, as lessee (“Lessee”), and____________ as lessor
(“Lessor”) (the “Agreement”)

Ladies and Gentlemen:

As legal counsel to Lessee, I have examined (a) an executed counterpart of the
Agreement, which, among other things, provides for the lease by Lessee from Lessor of
the Equipment, (b) an executed counterpart of the Escrow Agreement, dated as of
_______ (the “Escrow Agreement”), among Lessor, Lessee and ____________, as
Escrow Agent, (c) an executed counterpart of the [Name of Energy Savings Contract],
dated ____________ , __, (the “Energy Savings Contract”), between Lessee and [Name
of Energy Savings Contractor], and (d) such other opinions, documents and matters of
law as I have deemed necessary in connection with the following opinions.

Based on the foregoing, I am of the following opinions:

1. Lessee has a substantial amount of one or more of the following sovereign
powers: (a) the power to tax, (b) the power of eminent domain, and (c) police power.

2. Lessee has the requisite power and authority to purchase the Equipment and to
execute and deliver the Agreement, the Escrow Agreement and the Energy Savings
Contract and to perform its obligations under the Agreement, the Escrow Agreement and
the Energy Savings Contract.

3. The Agreement, the Escrow Agreement and the Energy Savings Contract and the
other documents either attached thereto or required therein have been duly authorized,
approved and executed by and on behalf of Lessee, and the Agreement, the Escrow
Agreement and the Energy Savings Contract are valid and binding obligations of Lessee
enforceable in accordance with their respective terms.

4. The authorization, approval and execution of the Agreement, the Escrow
Agreement and the Energy Savings Contract and all other proceedings of Lessee relating
to the transactions contemplated thereby have been performed in accordance with all
open meeting laws, public bidding laws and all other applicable state and federal laws, including without limitation [Describe applicable Energy Savings Statute].

5. There is no proceeding pending or threatened in any court or before any governmental authority or arbitration board or tribunal that, if adversely determined, would adversely affect the transactions contemplated by the Agreement, the Escrow Agreement and the Energy Savings Contract or the security interest of Lessor or its assigns, as the case may be, in the Equipment.

6. The Equipment to be leased pursuant to the Agreement constitutes personal property and when subjected to use by Lessee will not be or become a fixture under applicable law.

All capitalized terms herein will have the same meanings as in the Agreement. Lessor, its successors and assigns and any counsel rendering an opinion on the exclusion of the interest components of Rental Payments from gross income for purposes of federal income taxation are entitled to rely on this opinion.

Very truly yours,
Escrow Agreement

Lessor: ____________________________

Escrow Agent: ______________________

Lessee: State of Hawaii by the Department of Budget and Finance

(Address of Lessee)

THIS ESCROW AGREEMENT (this “Escrow Agreement”) dated __________, is entered into by and among__________, the State of Hawaii, by the Department of Budget and Finance (“Lessee”), and ________ (the “Escrow Agent”).

Lessor and Lessee have heretofore entered into that certain Equipment Lease Purchase Agreement dated ________, _____, (the “Agreement”). The Agreement contemplates that certain Equipment described therein (the “Equipment”) is to be acquired from the vendor(s) or manufacturer(s) thereof.

After acceptance of the Equipment by Lessee, the Equipment is to be leased by Lessor to Lessee pursuant to the terms of the Agreement.

The Agreement contemplates that Lessor will deposit with the Escrow Agent cash in the amount of $______ (Principal Amount), to be held in escrow by the Escrow Agent and applied on the express terms and conditions set forth herein. Such deposit, together with all interest and additions received with respect thereto (hereinafter, the “Escrow Fund”), is to be applied from time to time to pay the vendor(s) or manufacturer(s) of the Equipment its invoice cost (a portion of which may, if required, be paid prior to final acceptance of the Equipment by Lessee).

The parties desire to set forth the terms on which the escrow is to be created and to establish the rights and responsibilities of the parties hereto.

NOW, THEREFORE, the parties agree as follows:

1. The Escrow Agent hereby agrees to serve as escrow agent upon the terms and conditions set forth herein. The Escrow Agent agrees that the Escrow Fund shall be held irrevocably in trust for the account and benefit of Lessee and Lessor and all interest earned with respect to the Escrow Fund shall accrue to the benefit of Lessee and shall be applied as expressly set forth herein.
To the limited extent required to perfect the security interest granted by Lessee to
Lessor in the cash and negotiable instruments from time to time comprising the Escrow
Fund, Lessor hereby appoints the Escrow Agent as its security agent, and the Escrow
Agent hereby accepts the appointment as security agent, and agrees to hold physical
possession of such cash and negotiable instruments on behalf of Lessor.

2. On such day as determined to the mutual satisfaction of the parties (the
“Commencement Date”), Lessor shall deposit with the Escrow Agent cash in the amount
of $[Principal Amount] to be held by the Escrow Agent on the express terms and
conditions set forth herein. The Escrow Agent agrees to accept the deposit of the
Escrow Fund by Lessor, and further agrees to hold the amount so deposited together
with all interest and other additions received with respect thereto in escrow on the
express terms and conditions set forth herein.

3. The Escrow Agent shall at all times segregate the Escrow Fund into an account
maintained for that express purpose, which shall be clearly identified on the books and
records of the Escrow Agent as being held in its capacity as Escrow Agent. Securities
and other negotiable instruments comprising the Escrow Fund from time to time shall
be held or registered in the name of the Escrow Agent (or its nominee). The Escrow
Fund shall not, to the extent permitted by applicable law, be subject to levy or
attachment or lien by or for the benefit of any creditor of any of the parties hereto
(except with respect to the security interest therein held by Lessor).

4. The cash comprising the Escrow Fund from time to time shall be invested by the
Escrow Agent in such Qualified Investments (as hereinafter defined) in accordance with
the written investment directions of Lessee. Interest or other amounts earned and
received by the Escrow Agent with respect to the Escrow Fund shall be deposited in and
comprise a part of the Escrow Fund. No investment shall be made that would cause the
Agreement to be deemed to be an arbitrage bond within the meaning of Section 148(a)
of the Internal Revenue Code of 1986, as amended.

For the purpose of this paragraph 4, the term “Qualified Investments” means, to the
extent the same are at the time legal for investment of the funds being invested:
(i) money market funds, whose investment parameters target investments in (a) direct
general obligations of the United States of America; (b) obligations, the timely payment
of the principal of and interest on which is fully and unconditionally guaranteed by the
United States of America; or (c) general obligations of the agencies and instrumentalities
of the United States of America acceptable to Lessor; (ii) money market funds or other
interest bearing demand/depository accounts provided by an affiliate of Lessor,
appropriately collateralized if required by the laws of the State of Hawaii; or such other
investments permitted by a policy duly adopted by Lessee’s governing body and
approved by Lessor.
5. Lessor and Lessee hereby authorize the Escrow Agent to take the following actions with respect to the Escrow Fund:

   a. From time to time, the Escrow Agent shall pay the vendor or manufacturer of the Equipment or Lessee upon receipt of the following: (a) a duly executed Certificate of Acceptance and Payment Request in the form attached as Exhibit E to this Escrow Agreement, (b) the vendor(s) or manufacturer(s) invoice(s) specifying the acquisition price of the Equipment described in the requisition request, and (c) any additional documentation required by Lessor. Lessor shall not approve any such payment unless and until Lessee shall have provided to Lessor (i) payment and performance bonds naming Lessor as a dual obligee and issued by a surety company rated “A” or better by AM Best, and (ii) written evidence satisfactory to Lessor that Lessee has expended from other available sources at least $____________ on the energy savings project as to which the Equipment constitutes a part.

   b. In the event that Lessor provides to the Escrow Agent written notice of the occurrence of an Event of Default or a nonappropriation by Lessee under the Agreement, the Escrow Agent shall thereupon promptly remit to Lessor the entire balance of the Escrow Fund.

   c. Upon receipt by the Escrow Agent of a duly executed Certificate of Acceptance and Payment Request identified as the final such request, the remaining monies in the Escrow Fund shall, first be applied to all reasonable fees and expenses incurred by the Escrow Agent in connection herewith as evidenced by its statement forwarded to Lessor and Lessee; and, second be paid to Lessor, for application against the outstanding principal components of Rental Payments (as defined in the Agreement) under the Agreement, as provided therein, unless Lessor directs that payment of such amount be made in such other manner directed by Lessor that, in the opinion of nationally recognized counsel in the area of tax-exempt municipal obligations satisfactory to Lessor, will not adversely affect the exclusion of the interest components of Rental Payments from gross income for federal income tax purposes. If any such amount is used to prepay principal, the Payment Schedule attached to the Agreement will be revised accordingly as specified by Lessor.

6. The reasonable fees and expenses of the Escrow Agent incurred in connection herewith shall be the responsibility of Lessor and are herein defined as the sum of $____________, for escrow services as described herein; plus any extraordinary expenses incurred by the Escrow Agent at the request of Lessor or Lessee.

7. The Escrow Agent shall have no liability for acting upon any written instruction presented by Lessee and Lessor in connection with this Escrow Agreement which the Escrow Agent in good faith believes to be genuine. Furthermore, the Escrow Agent shall not be liable for any act or omission in connection with this Escrow Agreement except for its own gross negligence, willful misconduct or bad faith. The Escrow Agent shall not
be liable for any loss or diminution in value of the Escrow Fund as a result of the
investment decisions made pursuant to Section 4, Qualified Investments at the direction
of Lessee.

8. To the extent authorized by law, Lessee hereby agrees to indemnify and save the
Escrow Agent harmless against any liabilities which it may incur in the exercise and
performance of its powers and duties hereunder and which are not due to the Escrow
Agent’s gross negligence or willful misconduct. No indemnification will be made under
this Section or elsewhere in this Escrow Agreement for damages arising solely out of
gross negligence, willful misconduct or bad faith by the Escrow Agent, its officers,
agents, employees, successors or assigns.

9. The Escrow Agent may at any time resign by giving at least 30 days’ prior written
notice to Lessee and Lessor, but such resignation shall not take effect until the
appointment of the successor Escrow Agent. The substitution of another bank or trust
company to act as Escrow Agent under this Escrow Agreement may occur by written
agreement of Lessor and Lessee. In addition, the Escrow Agent may be removed at any
time, with or without cause, by instrument in writing executed by Lessor and Lessee.
Such notice shall set forth the effective date of the removal. In the event of any
resignation or removal of the Escrow Agent, a successor Escrow Agent shall be
appointed by an instrument in writing executed by Lessor and Lessee. Such successor
Escrow Agent shall indicate its acceptance of such appointment by an instrument in
writing delivered to Lessor, Lessee and the predecessor Escrow Agent.

Upon the effective date of resignation or removal, the Escrow Agent will transfer the
Escrow Fund then held by it to the successor Escrow Agent selected by Lessor and
Lessee.

10. This Escrow Agreement and the Escrow Fund established hereunder shall
terminate upon receipt by the Escrow Agent of the written notice from Lessor specified
in Section 5(b) or Section 5(c) hereof.

11. All notices hereunder shall be in writing, sent by certified mail, return receipt
requested, or by mutually recognized overnight carrier addressed to the other party at
its respective address shown on page 1 of this Escrow Agreement or at such other
address as such party shall from time to time designate in writing to the other parties;
and shall be effective on the date or receipt.

12. This Escrow Agreement shall inure to the benefit of and shall be binding upon
the parties hereto and their respective successors and assigns. No rights or obligations
of the Escrow Agent under this Escrow Agreement may be assigned without the prior
written consent of Lessor and Lessee.
13. This Escrow Agreement constitutes the entire agreement between the parties hereto with respect to the subject matter hereof, and no waiver, consent, modification or change of terms hereof shall bind any party unless in writing signed by all parties.

14. The Escrow Agent may employ agents, attorneys and accountants in connection with its duties hereunder and shall not be liable for any action taken or omitted in good faith in accordance with the advice of counsel, accountants or other skilled persons.

15. This Escrow Agreement shall be governed by and be construed and interpreted in accordance with the internal laws of the State ___________.

[Remainder of Page Intentionally Left Blank]
IN WITNESS WHEREOF, the parties hereto have caused this Escrow Agreement to be duly executed under seal as of the day and year first above set forth.

LESSOR:  __________________________________________

By:  __________________________________________

Name:  __________________________________________

Title:  __________________________________________

LESSEE:  STATE OF HAWAII, by the Department of Budget and Finance

By:  __________________________________________

Name:  __________________________________________

Title:  __________________________________________

ESCROW AGENT: [NAME OF ESCROW AGENT]

By:  __________________________________________

Name:  __________________________________________

Title:  __________________________________________

By:  __________________________________________

Name:  __________________________________________

Title:  __________________________________________
EXHIBIT E

CERTIFICATE OF ACCEPTANCE AND PAYMENT REQUEST

______________ (the “Escrow Agent”), as escrow agent under that certain Escrow Agreement dated ________, (the “Escrow Agreement”), by and among the State of Hawaii, by the Department of Budget and Finance (“Lessee”), ______________ (“Lessor”) and the Escrow Agent, is hereby requested to pay from the Escrow Fund established and maintained thereunder, the amount set forth below to the named payee(s). The amount shown is due and payable under a purchase order or contract (or has been paid by and not previously reimbursed to Lessee). The equipment described below is part or all of the Equipment listed in the Equipment Schedule to that certain Equipment Lease Purchase Agreement dated ____________(the “Agreement”), between Lessor and Lessee:

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>DESCRIPTION OF</th>
<th>UNITS OF EQUIPMENT</th>
<th>AMOUNT</th>
<th>PAYEE</th>
</tr>
</thead>
</table>

Lessee hereby certifies and represents to and agrees with Lessor as follows with respect to the Equipment described above: (i) the Equipment has been delivered and installed at the location(s) set forth in the Equipment Schedule; (ii) a present need exists for the Equipment which need is not temporary or expected to diminish in the near future; (iii) the Equipment is essential to and will be used by Lessee only for the purpose of performing one or more governmental functions of Lessee consistent with the permissible scope of Lessee’s authority; (iv) the estimated useful life of the Equipment based upon the manufacturer’s representations and Lessee’s projected needs is not less than the term of lease with respect to the Equipment; (v) Lessee has conducted such inspection and/or testing of the Equipment as it deems necessary and appropriate and hereby acknowledges that it accepts the Equipment for all purposes as of the date of this Certificate; (vi) the Equipment is covered by insurance in the types and amounts required by the Agreement; (vii) no Event of Default or nonappropriation, as such terms are defined in the Agreement, and no event which with the giving of notice or lapse of time or both, would become an Event of Default or nonappropriation, has occurred and is continuing on the date hereof; (viii) sufficient funds have been appropriated by Lessee for the payment of all rental payments due under the Agreement during Lessee’s current fiscal year.

Based on the foregoing, Lessor is hereby authorized and directed to fund the acquisition of the Equipment set forth in the Lease by paying, or causing to be paid, the manufacturer(s)/vendor(s) the amounts set forth on the attached invoices from the Escrow Fund held under the Escrow Agreement in accordance with its terms.
The following documents are attached hereto and made a part hereof: (a) Original Invoice(s); and/or (b) Copies of Certificate(s) of Origin, when applicable, designating Lessor as lienholder if any part of the Equipment consists of motor vehicles, and evidence of filing.

IF REQUEST IS FOR REIMBURSEMENT, CHECK HERE □. Lessee paid an invoice prior to the commencement date identified in the Equipment Schedule and is requesting reimbursement for such payment, a copy of evidence of such payment together with a copy of Lessee’s Declaration of Official Intent and other evidence that Lessee has satisfied the requirements for reimbursement set forth in Treas. Reg. 1.150-2 is hereby attached.

IF REQUEST IS FINAL REQUEST, CHECK HERE □. Lessee hereby certifies that the items of Equipment described above, together with the items of Equipment described in and accepted by Certificates of Acceptance and Payment Requests previously filed by Lessee with Lessor constitutes all of the Equipment subject to the Equipment Schedule.

Date: ______________

Approved:

______________________, as Lessor

______________________, as Lessee

STATE OF HAWAII, by the Department of Budget and Finance, as Lessee

By: __________________________

By: __________________________

Name: ________________________

Name: ________________________

Title: ________________________

Title: ________________________