

THE STATE OF NEW HAMPSHIRE

27A [Signature]

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PUBLIC UTILITIES COMMISSION
21 S. Fruit Street, Suite 10
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July 11, 2018

His Excellency, Governor Christopher T. Sununu
and the Honorable Council
State House
Concord, NH 03301

His Excellency and Honorable Councilors:

REQUESTED ACTION

Authorize the New Hampshire Public Utilities Commission (Commission) to enter into a Memorandum of Understanding (MOU) in the amount of \$3,500 with the Clean Energy States Alliance, Inc., Vendor No. 218801, to further the understanding of the locational value of distributed energy resources. The MOU will run from Governor and Council approval through October 4, 2019. Funding is 100% Renewable Energy Fund.

Funding is available in account, Consultants, as follows:

<u>Account</u>	<u>Description</u>	<u>FY 2019</u>
02-81-81-81150010-54540000	Renewable Portfolio Standard 362-F:10	
010-081-54540000-046-500464	General Consultants Non-Benefit	\$3,500.00

EXPLANATION

The Commission respectfully requests authority to enter into a Memorandum of Understanding in an amount not to exceed \$3,500 with the Clean Energy States Alliance, Inc. (CESA). Under this MOU, Commission Staff will provide \$3,500.00 in cost-share expenses.

CESA is participating in a collaborative research effort administered by the National Renewable Energy Laboratory (NREL) and supported by a grant from the U.S. Department of Energy, Solar Energy Technologies Office, to explore new ways solar energy can improve the affordability, reliability, and resiliency of the nation's electric grid. Through this multistate initiative, CESA will assist states in the identification of locations for distributed energy resources that provide benefits to the grid. Under the MOU, NREL will provide guidance and expertise to Commission Staff in its development of a New Hampshire specific study of the locational value of distributed energy resources for consideration in the creation of future net metering tariff(s) as required by

G&C 7/25/2018
Initials MOH
Date 7/10/18

Commission Order No. 26,124. New Hampshire's contribution consists of a cost-share match of Commission Staff time. CESA and the NREL will provide the following:

- a. Advise Commission Staff in their development of locational value study objectives and scope outline, including review of draft documents and participation in working group session(s).
- b. Provide education on locational value studies during a working group session.
- c. Review and comment on drafts of the Locational Value final report.

This MOU is contingent on sufficient REF funds being available upon the effective date of the Governor and Council approval. In the event that the REF funds are insufficient or are no longer available, General Funds will not be requested to support this agreement.

Respectfully submitted,



Martin P. Honigberg
Chairman



Memorandum of Understanding

between

Clean Energy States Alliance, Inc.

and

New Hampshire Public Utilities Commission

WHEREAS, Clean Energy States Alliance, Inc. ("CESA") is a U.S. nonprofit corporation that works with state clean energy funds and other funders of clean energy projects and has extensive knowledge and experience in state clean energy policies, regulations, and programs;

WHEREAS, the Alliance for Sustainable Energy, LLC has entered into Contract No. DE-AC36-08GO28308 with the Department of Energy ("DOE"), an agency of the U.S. Government, for the management and operation of the National Renewable Energy Laboratory ("NREL");

WHEREAS, CESA has entered into Subcontract No. AHQ-8-82080-01 with the Alliance for Sustainable Energy, LLC to participate in the Solar Energy Innovation Network, a collaborative research effort administered by NREL and supported by DOE Solar Energy Technologies Office to explore new ways solar energy can improve the affordability, reliability, and resiliency of the nation's electric grid;

WHEREAS, under Subcontract No. AHQ-8-82080-01 CESA will pursue a multistate initiative to identify locations for distributed energy resources that provide benefits to the grid ("INITIATIVE");

WHEREAS, the New Hampshire Public Utilities Commission ("NH PUC") is confirmed as a partner on this multistate initiative under Subcontract No. AHQ-8-82080-01;

WHEREAS, CESA, in partnership with NREL, the NH PUC and four other states and the District of Columbia, has developed a Statement of Work for the INITIATIVE, included as Appendix A to this Memorandum of Understanding (MOU);

NOW THEREFORE, CESA and the NH PUC hereby agree as follows:

1) WORK TO BE PERFORMED

The purpose of this MOU is to memorialize the obligations of CESA and NH PUC under this INITIATIVE. NH PUC will prepare and implement program activities in support of the completion of tasks described in the Statement of Work for the INITIATIVE (Appendix A) that

pertain to New Hampshire. In addition, the NH PUC shall provide support and expertise to the INITIATIVE. The NH PUC shall be responsible for any future modifications to the Statement of Work for the INITIATIVE pertaining to New Hampshire, provided that any modifications affecting the NH PUC's services are subject to and conditioned upon the NH PUC's approval.

2) TERM OF MOU

The term of this MOU is from April 4, 2018 through October 4, 2019.

3) BUDGET

Under this MOU, CESA shall manage a contract for services ("CONTRACT") on behalf of the NH PUC in furtherance of the goals of the INITIATIVE. NH PUC shall provide input, information, and oversight, to enable CESA's effective administration of the CONTRACT. The CONTRACT shall not exceed \$9,999.00. CESA shall be responsible for the full payment of the CONTRACT.

Under this MOU, NH PUC shall provide and document \$3,500.00 in cost-share expenses incurred in furtherance of the goals of this INITIATIVE and the activities described in the Statement of Work for the INITIATIVE. These cost-share expenses are not reimbursable.

Under this MOU, a representative of the NH PUC shall attend two of the four in-person Solar Energy Innovation Network convenings being held by NREL. Reasonable travel expenses by the NH PUC to attend these convenings shall be reimbursed by CESA.

4) PRINCIPALS

A) The person responsible for managing this MOU for the NH PUC is:

Karen Cramton
New Hampshire Public Utilities Commission – Sustainable Energy Division
21 South Fruit Street
Concord, NH 03301-2429
Ph: 603-271-6012
karen.cramton@puc.nh.gov

B) The person responsible for managing this MOU for CESA is:

Nate Hausman
Clean Energy States Alliance
50 State Street, Suite 1
Montpelier, VT 05602
Ph: 802-223-2554 x206
Nate@cleanegroup.org
cc: Maria@cleanegroup.org and WLeon@cleanegroup.org

C) If either of the persons identified in 4(A) and 4(B) (“Principals”) or any of the contact information for the Principals changes, the party subject to the change will notify the other party in writing of the new contact information.

5) DELIVERABLES

The NH PUC will participate in a wide range of activities to advance the INITIATIVE. The NH PUC will take special responsibility for the following tasks in furtherance of the goals of the INITIATIVE:

1. Holding an in-person facilitated technical workshop with stakeholders.
2. Gathering and providing information for INITIATIVE reporting by periodically describing the convening, research, analysis, testing, validation, training, and collaboration activities undertaken by the NH PUC.
3. Providing information about previous and current efforts to identify high-value locations for developing solar and other distributed energy resources in New Hampshire.
4. Assisting to identify any gaps for conducting INITIATIVE-related analysis on the locational value of solar and other distributed energy resources in New Hampshire.
5. Assisting CESA in the development of a report on state-based strategies for encouraging solar and other distributed energy resource development in optimal, cost-effective locations, including an action plan for implementation in New Hampshire.

The NH PUC shall be responsible for other INITIATIVE-related tasks as mutually agreed upon by NH PUC and CESA.

The NH PUC will participate in the INITIATIVE and will contribute to carrying out INITIATIVE tasks. It will ensure that it completes its work in accordance with the INITIATIVE time frames set forth in Attachment A and the Standard Terms and Conditions for Technical Services set forth in Attachment B-7 or as modified by mutual agreement.

The NH PUC is responsible for conducting all of its activities in accordance with the Standard Terms and Conditions for Technical Services set forth in Attachment B-7. Agreement to this Subaward constitutes the NH PUC’s acceptance of the Standard Terms and Conditions for Technical Services outlined in Attachment B-7.

6) REPORTING

The NH PUC shall submit brief progress reports by electronic mail as requested by CESA. These progress reports will address the status of the work and any issues that affect the performance of this MOU or the work products. These progress reports shall provide an overview of what NH PUC accomplished to advance the INITIATIVE, including major activities, significant results, major findings and conclusions, key outcomes, and other achievements. A written comparison of the actual project accomplishments with the project goals and objectives established for the INITIATIVE shall be included. If goals or objectives for the reporting period were not met, a detailed description of the variance shall be provided. The NH PUC shall work in good faith with

CESA to provide any currently unidentified reports or other information as needed to meet NREL's requirements under Subcontract No. AHQ-8-82080-01.

7) DOCUMENTATION

At the end of the term of this INITIATIVE, the NH PUC shall provide documentation of its full cost-share contribution under the INITIATIVE to CESA.

All of NH PUC's cost-share documentation shall include:

- i) Name and complete address of the NH PUC;
- ii) Date of issuance;
- iii) NREL Subcontract No. AHQ-8-82080-01;
- iv) Description of services/products being contributed to NH PUC's cost-share, including:
 - (a) Total hours and costs by individual and/or labor category;
 - (b) Total labor costs, fringe and overhead, as appropriate;
 - (c) Total of other any other expenses being contributed to cost-share
- v) A certification signed by an authorized representative of the NH PUC, as follows:

"The undersigned hereby certifies to the best of my knowledge and belief that the cost-share documentation has been prepared from the books and records of the New Hampshire Public Utilities Commission in accordance with the terms of the MOU and are correct; the work reflected by these costs have been performed, and the quantities and amounts involved are consistent with the requirements of the MOU; and all required CESA approvals have been obtained."

NH PUC's cost-share documentation will be sent to:

Anthony Vargo, CFO
Clean Energy States Alliance
50 State Street, Suite 1
Montpelier, VT 05602

phone: 802.223.2554 x214
fax: 802.223.4967
email: Tony@cleanegroup.org
cc: Nate@cleanegroup.org

8) TRAVEL

Reasonable travel expenses by a representative of the NH PUC to attend two Solar Energy Innovation Network convenings shall be reimbursable by CESA under this MOU. Reimbursable travel expenses include transportation to and from the convenings (round-trip coach-class airfare, train fare, bus fare, taxi fare, personal vehicle use at the current IRS reimbursement rate per mile, and car rental use with pre-approval from CESA staff on time of rental and type of vehicle) as well as lodging accommodations to attend the convenings. The NH PUC shall document

reimbursable travel expenses and shall submit a request for reimbursement using a travel reimbursement form provided by CESA, along with expense documentation, to CESA after travel to each in-person convening. Reimbursements will be remitted to the representative of the NH PUC attending the convenings within 14 days of CESA's receipt of a completed travel reimbursement form with full expense documentation.

The NH PUC must comply with U.S. government travel regulations and limitations when arranging travel.

9) RECORD KEEPING

All funds and cost-share contributions under this MOU are subject to audit. The NH PUC agrees that it will maintain complete financial records for all of its cost-share expenses incurred under this MOU for a period of three (3) years after the completion of this MOU and will cooperate with CESA in satisfying any audit requests unless otherwise required by the Standard Terms and Conditions for Technical Services set forth in Appendix B-7.

10) TERMINATION

This MOU may be terminated by CESA at any time should NREL provide notice that it will terminate or suspend Subcontract No. AHQ-8-82080-01. In that event, CESA will be responsible only for overseeing the CONTRACT as described in this MOU up to that time.

11) ASSIGNMENT

This MOU shall not be transferred or assigned by the NH PUC without the prior consent of CESA.

12) INSURANCE AND FINANCIAL RESPONSIBILITY

Each party shall be responsible for maintaining its own insurance coverage, if it so chooses, and shall not be required to name the other party as an additional insured. Each party is an independent entity and shall have no claim against the other hereunder for vacation pay, sick leave, retirement benefits, social security, worker's compensation, health or disability benefits, unemployment insurance benefits, or employee benefits of any kind.

13) INDEMNIFICATION

Each party (the "Party Indemnitor") agrees to indemnify, defend, and hold harmless the other party, and its officers, employees, consultants, sub-contractors, and agents (each a "Party Indemnitee," and collectively the "Party Indemnitees") from and against any and all causes of action, claims, liabilities, obligations, judgments, or damages, including, but not limited to, reasonable attorney fees and costs of litigation ("Claims"), to the extent arising out of the Party Indemnitor's negligence or breach of this MOU except for such loss or damage arising from the sole negligence or willful misconduct of the Party Indemnitee. Except as provided in this Section, in the event any Party Indemnitee is made a party to any action, lawsuit, or other adversarial proceeding arising from the Party Indemnitor's negligence or breach of this

agreement, the Party Indemnitor shall provide for the defense of the Party Indemnitee(s) or, at the Party Indemnitor's option, reimburse the Party Indemnitee(s) all costs incurred in defending such Claims, including, but not limited to, reasonable attorney's fees.

In no event shall either party, its principals, members, directors, consultants, sub-contractors, employees, agents, or assigns (collectively, the "Parties") be liable for consequential, special, indirect, incidental, punitive, or exemplary damages, costs, expenses, or losses arising from or related to this MOU, even if advised of the possibility of such damages, whether under theory of contract, tort (including, but not limited to, negligence), strict liability, or otherwise (including, but not limited to, lost profits, lost opportunity costs, and energy costs incurred by the other party). THE TOTAL LIABILITY FOR THE PARTIES SHALL IN NO EVENT EXCEED THE AMOUNT OF THE FEES, IF ANY, THAT HAVE BEEN PAID OR ARE PAYABLE TO CESA BY THE NH PUC UNDER THIS CONTRACT EXCEPT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT. The terms of this Section 17 shall survive the termination of this Agreement. This Section shall not be construed to limit the parties' indemnification obligations.

14) NOTICES

All notices, requests and other communications under this MOU must be in writing or via electronic mail, and shall be deemed to have been given on the date sent, if by electronic mail, or delivered, if delivered by hand or by a generally accepted overnight delivery service, and on the third business day after deposited in the U.S. mail, if mailed by first class, certified or registered mail, return receipt requested, postage and registry fees prepaid, and addressed to the Principals.

15) FULL MOU

This MOU, including Appendix A and Appendix B-7, embodies the entire agreement and understanding between the NH PUC and CESA and supersedes all prior MOUs and understandings, oral or written, relating to the INITIATIVE.

16) AMENDMENT OF THIS MOU

No amendment, change, alteration or modification of this MOU may be made except in writing signed by the parties.

17) SEVERABILITY

If a court of competent jurisdiction finds any section of this MOU to be void and unenforceable, the remaining sections of the MOU continue in effect as though the unenforceable section does not exist.

18) EFFECTIVE DATE

This MOU, and all obligations of the parties hereunder, shall not become effective until the date the Governor and Executive Council approve this MOU ("Effective Date"). Parties may begin

performance in advance of the Effective Date; however, if CESA commences performance prior to the Effective Date, it shall do so at its sole risk, and in the event that this MOU does not become effective, the State shall have no liability to CESA or any other person, including without limitation, any obligation to pay for such performance.

Agreed to this day of July 5th, 2018.

NEW HAMPSHIRE
PUBLIC UTILITIES COMMISSION

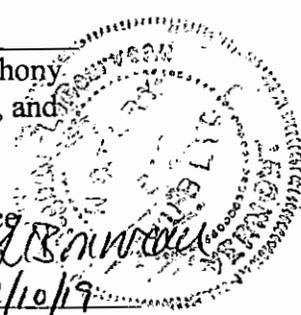
by: [Signature] 7/5/18
[Name] Martin Hunsiger date
[Title] Chair

CLEAN ENERGY STATES ALLIANCE, INC.

by: [Signature] 7/2/18
Anthony Vargo date
Chief Financial Officer

State of Vermont, County of Washington
on July 2, 2018, before the undersigned officer, personally appeared Anthony Vargo, known to me (or satisfactorily proven) to be the person whose name is signed, and acknowledged that he executed this document in the capacity indicated.

Notary Public/Justice of the Peace
[Signature]
My Commission Expires: 2/10/19



Approval by the Attorney General (Form Substance and Execution)

By: [Signature] On: 7/10/2018

Approval by the Governor and Council
By: On:

CERTIFICATE OF AUTHORITY/VOTE
(Corporation with Notary Seal)

I, Maria Blais Costello, do hereby certify that:
(Name of Clerk of the Corporation, who cannot be the same person who signs the Contract)

1. I am a duly elected Clerk of Clean Energy States Alliance, Inc. ("CESA")
2. The following are true copies of two resolutions duly adopted by a majority vote of the Board of Directors of the Corporation duly held on July 2, 2018.
(Date given authority)

RESOLVED: That this Corporation enter into contracts and memoranda of understanding with the State of New Hampshire, acting through its Public Utilities Commission.

RESOLVED: That the Chief Financial Officer, Anthony Vargo, is hereby authorized on behalf of this Corporation to enter into contracts and memoranda of understanding with the State and to execute any and all documents, agreements and other instruments, and any amendments, revisions, or modifications thereto, as he/she may deem necessary, desirable or appropriate.

3. The forgoing resolution has not been amended or revoked, and remains in full force and effect as of July 2, 2018.
(Date Contract Signed)
4. Anthony Vargo (Name of corporate signatory) is the duly elected Treasurer and CFO (Title of Corporate signatory) of the corporation.

Maria Blais Costello
(Signature of the Clerk of the Corporation)

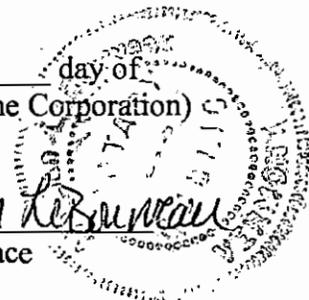
STATE OF VERMONT
County of Washington

The foregoing instrument was acknowledged before me this 2nd day of July, 2018, by Maria Blais Costello. (Clerk of the Corporation)

(NOTARY SEAL)

Myran Monahan Keenan
Notary Public / Justice of the Peace

Commission Expires: 2/10/19





Clean Energy States Alliance, Inc.

BOARD RESOLUTION

The Board of Directors of the Clean Energy States Alliance voted by electronic ballot on July 2, 2018 on the following two resolutions, which were approved by the board by a majority vote.

Resolved:

- 1) That the Corporation can enter into contracts and memoranda of understanding with the State of New Hampshire, acting through its Public Utilities Commission.**
- 2) That the Chief Financial Officer, Anthony Vargo, is hereby authorized on behalf of this Corporation to enter into contracts and memoranda of understanding with the State and to execute any and all documents, agreements and other instruments, and any amendments, revisions, or modifications thereto, as he/she may deem necessary, desirable or appropriate.**

Respectfully submitted:

A handwritten signature in black ink, appearing to read "Maria Blais Costello", written over a horizontal line.

Maria Blais Costello
Secretary

Date: July 2, 2018

APPENDIX A

STATEMENT OF WORK “Solar Energy Innovation Network Round 1 Collaboration Team: Clean Energy States Alliance (CESA)”

April 4, 2018

1.0 BACKGROUND

The Solar Energy Innovation Network (Innovation Network) is a collaborative research effort administered by the National Renewable Energy Laboratory (NREL) and supported by the U.S. Department of Energy (DOE) Solar Energy Technologies Office that uses real-world data to address the long-term challenges of increasing the reliability and resilience of the electrical grid. In order to address the nation’s rapidly changing electricity needs, data-driven research foundations and mechanisms need to be in place to inform future system designs across the multitude of locational conditions. The Innovation Network is designed to identify the systemic and unknown knowledge barriers preventing utilities, state and local authorities, regional planning commissions, and the solar industry from creating the innovative solutions needed to meet the country’s evolving demands for the electric grid.

Through coordinated engagement within cohorts, selected teams work together to identify local and regional impacts, formulate and test innovations, and validate new models. Participants are also assigned to peer networks to cross-pollinate solutions across varying geographies, market and rate structures, infrastructure, and grid characteristics. This deepens participant research learning and strengthens outcomes.

Over the course of the work effort, these teams receive analytical support and direction from NREL, ensuring the academic rigor and viability of resulting solutions. The outcomes of each research cycle feed into the continual development and testing of new concepts, models, and designs. This process takes into account real-world considerations and the dynamic energy landscape, leading to an end product that’s sound and that includes insights that are only available through the use of real-world scenarios.

The Innovation Network develops early-stage frameworks, models, and algorithms to address the long-term challenges of the changing electrical grid. This program aims to:

- Identify the systemic and unknown barriers to increasing the resiliency, reliability, and affordability of the future grid by performing in-depth analysis to generate broader insights;
- Apply an engineering problem-solving approach by using real world data to understand and propose solutions;
- Increase the relevance and timeliness of research and analysis; and
- Make interacting with the National Laboratories faster, easier, and more accessible for those in the field.

The Innovation Network builds on successful elements of past and current programs at DOE and NREL, to bring together diverse groups of stakeholders striving to bring novel solutions to bear in the market.

2.0 OBJECTIVE

The Innovation Network brings together stakeholders from across the United States to develop innovative solutions that explore new approaches to solar market barriers, reduce integration risks, and increase market opportunities—with the support of the nation's premier energy research organizations. Insights gained from these collaborations will inform foundational solar research and development pathways, and allow for pilot testing of new business models and technology solutions.

3.0 SCOPE OF WORK

The Subcontractor shall:

- Develop solutions for improving grid flexibility and resiliency through advanced siting and operations of solar plus distributed energy resources (DER).
- Focus on quantifying value of grid flexibility and resiliency using real world data
- Provide data input to model grid impacts, costs, and solutions for combining solar and other DERs such as storage.
- Pilot and test approaches and document through case studies.

The project outcomes include:

- Assist five states and the District of Columbia (or “the six states”) to develop a decision-making methodology for identifying locations for solar development that will have benefits to the utility grid
- Develop data sets for states to evaluate solar photovoltaic (PV) plus other DER solutions for increased grid resiliency.

The Subcontractor shall participate in the Innovation Network including sending team representatives to a series of facilitated collaboration meetings or technical workshops and regular conference calls and webinars for peer information exchange. At the 1–2 day, in-person meetings, the Subcontractor and associated team members shall share progress with others, learn from peers, define analyses or other assistance that will address barriers, and access technical expertise. Through the period of performance, the Subcontractor shall develop appropriate mechanisms for stakeholder and public outreach such as workshops, presentations, technical papers, manuals, and other information formats that convey study and testing results, impacts of pilot projects, specific solutions, innovations, and lessons learned during the program.

4.0 TASKS

For the “Multistate Initiative to Develop Solar in Locations that Provide Benefits to the Grid” project, the Subcontractor shall evaluate various approaches for quantifying locational value for solar PV and PV plus storage to support resiliency. The Subcontractor shall assist five states and the District of Columbia (or “the six states”) to develop a decision-making methodology for identifying locations for solar development that will have benefits to the utility grid. More specifically, the Subcontractor shall complete the following specific, measurable, attainable, realistic, and time bound (SMART) project outcomes:

- Collect, analyze, and publish data of previous and current efforts by state agencies, utilities, nonprofits, and industry groups in the six states to identify high-value locations for developing solar and other DER solutions.
- Research and refine preferred methodologies for identifying high-value locations in the six states with data from electric utilities on transmission system congestion and distribution upgrade costs as well as planned system upgrades and resiliency improvements.
- Assess data needs and availability to conduct analysis.
- Develop state-based strategies for encouraging solar development in the optimal locations and with action plans for implementation.
- Collaborate with local utilities to pilot three location-specific developments and demonstrate the feasibility of incentivizing location-specific deployments of solar, deferring distribution system upgrades, reducing peak pricing costs with energy storage, increasing resiliency, or capturing other benefits.

The Subcontractor shall perform the following tasks:

4.1 Confirm Team Stakeholders

The Subcontractor shall identify and confirm the stakeholders, partners, and individual team members have the expertise and authority to implement the team project with measure-able results. As part of this activity the Subcontractor shall provide contact information for each team member, describe the team members' specific roles and responsibilities, and describe their expected contributions towards achieving project outcomes.

4.2 Collaboration and Workshops

The Subcontractor shall participate, along with other team representatives, at four in-person cohort meetings, including three peer exchange working sessions and a replication conference. Each state will hold an in-person, facilitated technical workshop specific to the progress of the Subcontractor team, which will include activities such as information gathering, training, analytical support, and reviewing modeling inputs, data quality, and results. The Subcontractor shall also participate in monthly coordination conference calls that will include sharing team project objectives, barriers, progress, and findings with other cohort teams; contributing to related efforts of other teams; and contributing design input and feedback to individual meeting questionnaires.

4.3 Programmatic Metrics and Impact Measurement

The Subcontractor shall participate in the Innovation Network's program metrics and impact measurement process. This will include providing feedback and information during two one-hour phone calls—one to establish a baseline for project goals and outcomes at the beginning of the project, and one to measure progress toward the stated outcomes and associated impact at the end of the period of performance. The interview-style phone calls will be conducted by Innovation Network staff and will include questions about the current state of the effort, aspirations for future development, and the innovation that results from participation in the program. The Subcontractor shall also provide a written response to both the metric baseline and outcomes questionnaires. The Subcontractor shall also respond to periodic questionnaires and requests for feedback throughout the period of performance.

4.4 Technical Reports

The Subcontractor shall prepare and submit two interim progress reports describing the convening, research, analysis, testing, validation, training, and collaboration activities undertaken and progress towards achieving the team's SMART project outcomes.

The Subcontractor shall also prepare and submit a final technical report describing the completion of research, analysis, testing, validation, training, and collaboration activities including success towards achieving the project SMART outcomes. The Subcontractor shall submit the final technical report, both in draft and final version, in the NREL report template. NREL will have 7 days to review the draft version and provide written comments to the subcontractor. The subcontractor shall make any corrections or revisions per NREL's written comments and submit the final version to NREL with a reproducible master document.

4.5 Review of State-Based Strategies for Locational Value of Solar

The Subcontractor shall gather information from the six states about previous and current efforts to identify high-value locations for developing solar and other DER solutions. The Subcontractor shall also convey to NREL information from the six states on state goals and objectives in utilizing locational value analysis for solar and DER siting. The six states include Connecticut, the District of Columbia, New Hampshire, Rhode Island, Washington State, and Wisconsin. The Subcontractor shall share information about these pre-existing efforts with the project partners in the six states.

4.6 Assessment of State Data Availability and Needs

The Subcontractor shall work with the six states to understand data needs and availability. For each state, there will be an assessment of available data and data that could be obtained to conduct locational value analysis. The Subcontractor shall assess whether there are data gaps that could impede forward progress in analyzing locational value.

The Subcontractor shall share and publish these data gaps and needs with the project partners in the six states and Innovation Network participants.

4.7 State-Based Implementation Plans for High-Value Locations of Solar

The Subcontractor shall develop an outline and final report of state-based strategies for encouraging solar and other DER development in the optimal, cost-effective locations and with action plans for implementation in each of the six states. These strategies shall provide a roadmap for informing the development of solar projects in light of the locational benefits. The implementation plans may include policies and programs at the state levels to enable the integration of locational value in siting decisions.

The Subcontractor shall share and publish these implementation plans with the project partners in the six states, CESA members, and Innovation Network participants.

4.8 Three Pilot Case Studies

The Subcontractor shall collaborate with local utilities to pilot three DER developments in beneficial locations of the grid and demonstrate the feasibility of incentivizing deployments of solar, based on locational value such as deferring distribution system upgrades or reducing grid congestion.

5.0 MEETINGS AND TRAVEL REQUIREMENTS

Associated task is 4.2 Collaboration and Workshops.

- 5.1 Cohort Peer Exchange Working Session #1**
In-person participation; 2 days; January 16-17, 2018; NREL Main Campus in Golden, CO
- 5.2 Cohort Peer Exchange Working Session #2**
In-person participation; 2 days; Spring 2018; NREL Main Campus in Golden, CO
- 5.3 Cohort Peer Exchange Working Session #3**
In-person participation; 2 days; Fall 2018; Rocky Mountain Institute Office in Basalt, CO
- 5.4 Innovation Network Replication Conference**
In-person participation; 2 days; NREL Main Campus in Golden, CO; Spring 2019
- 5.5 Team Technical Workshop A**
In-person participation for one of the six states; 1 day; Spring 2018; team-specified location
- 5.6 Team Technical Workshop B**
In-person participation for one of the six states; 1 day; Summer 2018; team-specified location
- 5.7 Team Technical Workshop C**
In-person participation for one of the six states; 1 day; Summer 2018; team-specified location
- 5.8 Team Technical Workshop D**
In-person participation for one of the six states; 1 day; Fall 2018; team-specified location
- 5.9 Team Technical Workshop E**
In-person participation for one of the six states; 1 day; Fall 2018; team-specified location
- 5.10 Team Technical Workshop F**
In-person participation for one of the six states; 1 day; Winter 2018-19; team-specified location
- 5.11 Monthly Conference Calls**
Online participation in 16 monthly coordination/progress calls; 1 – 2 hours each

6.0 DELIVERABLES

Deliverable #	Associated Task #	Description	Due Date (time after subcontract execution)
1	4.1 and 4.3	Team Stakeholders; Baseline Project Call & Questionnaire	0.5 months
2	4.2 and 4.4	Technical Progress Report: 6 months	6 months
3	4.2 and 4.4	Technical Progress Report: 12 months	12 months
4	4.2 and 4.4	Final Technical Report Review Draft	17.5 months
5	4.2, 4.3, and 4.4	Final Technical Report; Project Outcome Call & Questionnaire	18 months
6	4.5	Review of State-Based Strategies for Locational Value of Developing Solar Report	3 months
7	4.6	Assessment of State Data Availability and Needs Report	6 months
8	4.7	State-Based Implementation Plans for High-Value Locations of Solar, Outline of Possible Strategies	9 months
9	4.7	State-Based Implementation Plans for High-Value Locations of Solar, Final Report	12 months
10	4.8	Three Pilot Case Studies	17 months

DELIVERY OF COMPUTER SOFTWARE CODE (AS APPLICABLE)

All object, source, or other code (including all applicable data sets) developed under this subcontract effort shall be provided to the technical monitor as a condition of final payment, in accordance with the subcontract. It is expected that all delivered source code shall be original and the subcontractor shall provide a written certification to the subcontract associate that all

source, or other code developed and delivered under this subcontract does not contain any open source code - as a condition of final payment in accordance with the subcontract. The subcontractor's (including all lower tier subcontractors, as applicable) certification shall specify that "All source, or other software code developed and/or delivered under this Subcontract No. _____ is original and does not contain any 3rd party or other open source software."

7.0 ELECTRONIC REPORTING REQUIREMENTS FOR SUBCONTRACT REPORT DELIVERABLES

It is NREL's intention to publish subcontract report deliverables containing publicly available information (e.g. non-confidential, non-protected, non-proprietary information) for distribution on the internet.

The subcontractor shall provide the final approved version of report deliverables in accordance with the electronic reporting requirements described below.

The technical monitor may specifically direct the subcontractor to provide reports in one or more of the file format standards provided below.

- a. The subcontractor shall submit all report deliverables (including status, annual, or final reports) as electronic files in Adobe .pdf format, preferably with all graphics and images embedded within the document.
- b. All final approved version submissions shall be delivered to NREL via e-mail to the 1) NREL Technical Monitor, 2) the NREL Subcontract Administrator or Associate (as specified in the Deliverable Addresses below).
- c. If it is not possible to include all of the graphics and images (figures, illustrations, and photographs) in the same file as the text, NREL will accept the text in Adobe .pdf formats and the graphics and images as separate electronic graphic or image files*.

The accepted standard for page layout and graphics is the Adobe Creative Suite of programs.

*The acceptable graphic or image file formats are: .eps, .tif, .gif, .jpg, .wmf, .emf, .pct, .png, .bmp, .psd, .ai, .fh, .qif, .fpx, cdr. The preferred resolution for graphics or images is 300 dpi. Include all fonts used in creating the file.

- d. For animation, video, or multi-media elements, CD-ROM, DVR and thumb drive are acceptable technical deliverable media.
- e. For all calculations in support of subcontract reports that are conducted in ASPEN+, an electronic copy of INPUT, REPORT and BACKUP (if Model Manager is used) must be submitted with all reports. Additionally, if costing or sizing calculations are conducted in a spreadsheet [no process calculations (heat and material balances) in spreadsheet format are permitted], a copy of the fully documented MS Excel file shall be supplied.
- f. A fully executed model release shall be supplied to NREL with all photographs and images, regardless of whether such photographs or images are delivered to NREL electronically or in hard copy. Such model release shall certify that the Alliance for Sustainable Energy, LLC, Management and Operating Contractor for the National Renewable Energy Laboratory for the U.S. Department of Energy is granted a non-exclusive, paid-up, irrevocable, worldwide license to publish such photographs in any medium or reproduce such photographs or allow others to do so for United States

APPENDIX B-7

**STANDARD TERMS AND CONDITIONS
FOR**

TECHNICAL SERVICES

FIRM FIXED-PRICE AND FIXED-UNIT PRICE

(WHERE SERVICE CONTRACT ACT DOES NOT APPLY)

DECEMBER 15, 2016

Subcontractor is hereby on notice that the contracting party to this subcontract is the Alliance for Sustainable Energy, LLC, in its capacity as the Managing and Operating Contractor for the National Renewable Energy Laboratory (NREL) under U.S. Department No. DE-AC36-08GO28308.

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SECTION I. CLAUSES APPLICABLE TO NREL SUBCONTRACTS

CLAUSE 1. DEFINITIONS (SPECIAL) (JUL 2014)

Derived from FAR 52.202-1 (NOV 2013) as modified by DEAR 902.101

(Applies to all subcontracts that exceed \$150,000.)

- (a) When a solicitation provision or subcontract clause uses a word or term that is defined in the Federal Acquisition Regulation (FAR), the word or term has the same meaning as the definition in FAR 2.101 in effect at the time the solicitation was issued, unless—
 - (1) The solicitation, or amended solicitation, provides a different definition;
 - (2) The subcontracting parties agree to a different definition;
 - (3) The part, subpart, or section of the FAR where the provision or clause is prescribed provides a different meaning; or
 - (4) The word or term is defined in FAR Part 31, for use in the cost principles and procedures.
- (b) The FAR Index is a guide to words and terms the FAR defines and shows where each definition is located. The FAR Index is available via the Internet at <http://www.acquisition.gov/far> at the end of the FAR, after the FAR Appendix.
- (c) When a solicitation provision or subcontract clause uses a word or term that is defined in the Department of Energy Acquisition Regulation (DEAR) (48 CFR chapter 9), the word or term has the same meaning as the definition in 48 CFR 902.101 or the definition in the part, subpart, or section of 48 CFR chapter 9 where the provision or clause is prescribed in effect at the time the solicitation was issued, unless an exception in (a) applies.
- (d) The following words and terms are in addition to paragraph (a) of this section—
 - (1) “Head of the Agency” means the Secretary, Deputy Secretary, or Under Secretary of the Department of Energy (DOE).
 - (2) “DOE Contracting Officer” means a person with the authority to enter into, administer, and/or terminate DOE Prime Contracts and make related determinations and findings. The term includes certain authorized representatives of the DOE Contracting Officer acting within the limits of their authority as delegated by the DOE Contracting Officer.
 - (3) “NREL Subcontract Administrator” means an employee of the entity that manages and operates the National Renewable Energy Laboratory (NREL) with the authority to enter into, administer, and/or terminate subcontracts and make related determinations and findings. The term includes certain authorized representatives of the NREL acting within the limits of their authority as delegated by the NREL.
 - (4) Except as otherwise provided in this subcontract, the terms “subcontracts and lower-tier subcontracts” includes, but is not limited to, purchase orders and changes and modifications to purchase orders and changes and modifications to purchase orders.
 - (5) “DOE” means the Department of Energy.
 - (6) “Contractor” or “DOE Prime Contractor” means the entity managing and operating the National Renewable Energy Laboratory under prime contract to the U.S. Department of Energy (DOE). The National Renewable Energy Laboratory (NREL) is a Department of Energy-owned national laboratory, managed and operated by the DOE Prime Contractor.
 - (7) “DOE Directive” means DOE Orders and Notices, modifications thereto, and other forms of directives, including for purposes of this subcontract those

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portions of DOE's accounting and procedures handbook applicable to Contractors, issued by DOE. The term does not include temporary written instructions by the DOE Contracting Officer or the NREL Subcontract Administrator for the purpose of addressing short-term or urgent DOE and NREL concerns relating to health, safety, or the environment.

CLAUSE 2. SUBCONTRACT ISSUES AND DISPUTES (SPECIAL) (SEP 2007)

Derived from NREL 08.100-01

(Applies to all subcontracts.)

- (a) It is NREL's practice to try to resolve all contractual issues by mutual agreement at the NREL Subcontract Administrator's level, without litigation. Both parties hereby agree to explore all reasonable avenues for negotiations in order to avoid a dispute. Either party may provide written notice to the other party to conduct negotiations for a period not to exceed sixty (60) calendar days. After sixty calendar days, if possibilities for negotiations have failed, either party shall have thirty (30) calendar days to request that the potential dispute be moved to Alternative Dispute Resolution (ADR). Within fifteen (15) calendar days after receiving a request to move to ADR, if ADR procedures are not acceptable to the non-moving party, a written explanation citing specific reasons for rejecting ADR as inappropriate for resolution of the dispute shall be provided to the moving party. If the parties are unable to agree on the application of ADR procedures to resolve the potential dispute or are unable to satisfactorily resolve the dispute using ADR procedures for a period not to exceed ninety (90) calendar days (or such longer period as mutually agreed in writing), the parties shall resume the formal process authorized in this clause.
- (b) The parties agree that the appropriate forum for litigation of any dispute pertaining to this subcontract shall be a court of competent jurisdiction as follows:
 - (1) Subject to paragraph (b) (2) of this clause, any such litigation shall be brought and prosecuted exclusively in Federal District Court; with venue in the United States District Court of Colorado in Denver, Colorado.
 - (2) Provided, however, that in the event the requirements for jurisdiction in any Federal District Court are not present, such litigation shall be brought in a court of competent jurisdiction in the county of Jefferson and State of Colorado.
- (c) Any substantive issue of law in such litigation shall be determined in accordance with the body of applicable Federal law relating to the interpretation and application of clauses derived from Federal Acquisition Regulation (FAR) and the Department of Energy Acquisition Regulation that implement and supplement the FAR. If there is no applicable Federal law, the law of the State of Colorado shall apply in the determination of such issues. Conflict of law provisions shall not determine applicable governing law. Nothing in this clause shall grant the Subcontractor by implication any statutory rights or remedies not expressly set forth in this subcontract.
- (d) There shall be no interruption in the prosecution of the work, and the Subcontractor shall proceed diligently with the performance of this subcontract pending final resolution of any contractual issues, disputes, or litigation arising under or related to this subcontract between the parties hereto or between the Subcontractor and lower-tier Subcontractors or suppliers.
- (e) The Contract Disputes Act of 1978 (41 U.S.C. Sections 601-613) shall not apply to this subcontract; provided, however, that nothing in this clause shall prohibit NREL, in its sole discretion, from sponsoring a dispute of the Subcontractor for resolution.

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under the provision of its prime contract with DOE. In the event that NREL so sponsors a dispute at the request of the Subcontractor, the Subcontractor shall be bound by the decision of the cognizant DOE Contracting Officer to the same extent and in the same manner as NREL.

- (f) Any disputes relative to intellectual property matters will be governed by other provisions of this subcontract.

CLAUSE 3. LOBBYING RESTRICTIONS (ENERGY & WATER ACT) (SPECIAL) (2007)

Derived from NREL 08.100-04

(Applies to all subcontracts.)

The Subcontractor or awardee agrees that none of the funds obligated on this award shall be expended, directly or indirectly, to influence Congressional action on any legislative or appropriation matters pending before Congress, other than to communicate to Members of Congress as described in 18 U.S.C. 1913. This restriction is in addition to those prescribed elsewhere in statute and regulation.

CLAUSE 4. SUBCONTRACTOR ACCEPTANCE OF NOTICES OF VIOLATION OR ALLEGED VIOLATIONS, FINES, AND PENALTIES (SPECIAL) (MAY 2003)

Derived from NREL 08.100-05

(Applies to all subcontracts.)

- (a) The Subcontractor shall immediately notify the NREL Subcontract Administrator of any notice the Subcontractor may receive including Notice of Violations (NOV) or Notice of Alleged Violations (NOAV) issued by federal, state, or local regulators associated with the operations of NREL and/or performance of work under the Subcontract.
- (b) When deemed appropriate by the NREL Subcontract Administrator, the Subcontractor shall conduct negotiations with regulators regarding NOV/NOAVs, fines and penalties, including, if the NREL Subcontract Administrator so requires, accepting NOV/NOAVs in its own name. The Subcontractor shall make no commitments or offers to regulators binding NREL/Government unless approved in advance and in writing by the NREL Subcontract Administrator. Failure to obtain such advance written approval may result in otherwise allowable costs being declared unallowable and/or the Subcontractor being liable for any excess costs to NREL/Government associated with or resulting from such offers/commitments.
- (c) The Subcontractor shall support and provide assistance to the NREL/Government concerning any matter arising under a NOV/NOAV.

CLAUSE 5. SUBCONTRACTOR QUALITY REPRESENTATIONS (SPECIAL) (MAY 2009)

Derived from NREL 08.100-06

(Applies to all subcontracts, including construction subcontracts, where items or parts are supplied or delivered.)

- (a) New Materials. Unless otherwise specified in this subcontract, all items or parts supplied or delivered by the Subcontractor, or its lower-tier Subcontractors, shall consist of new materials. "New materials" means previously unused. The Subcontractor shall not deliver any item or part that is residual inventory resulting from terminated Government contracts/subcontracts or former Government surplus property.

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- (b) Recycled or Recovered Materials. The requirement for supply or delivery of items or parts consisting of new materials does not exclude the delivery of recycled or recovered materials as defined by the Environmental Protection Agency in 40 CFR 247.
- (c) Used, Refurbished, or Rebuilt Items or Parts. In the event that items or parts consisting of new materials are not reasonably available to the Subcontractor, with prior NREL Subcontract Administrator written approval, the Subcontractor may supply or deliver either: used; or refurbished; or rebuilt items or parts that are not of such an age or so deteriorated as to impair their usefulness or safety and conform to government or industry-accepted specifications or national consensus standards.
- (d) Suspect or Counterfeit Items or Parts. "Suspect or counterfeit items or parts" mean (1) items or parts that may be of new manufacture but labeled to represent a different class of items or parts or (2) used and/or refurbished items or parts complete with false labeling, that are represented as new items or parts.
- (e) Indemnification of NREL/DOE. The Subcontractor shall indemnify NREL and the DOE, their officers, agents, and employees, and third parties for any financial loss, injury, or property damage resulting directly or indirectly from items or parts that are not genuine, original, and unused, or not otherwise suitable for the intended purpose. This includes, but is not limited to, items or parts that are defective, suspect, or counterfeit; items or parts that have been provided under false pretenses; and items or parts that are materially altered, damaged, deteriorated, degraded, or result in product failure.
- (f) Quality Representations. The Subcontractor represents that items and parts supplied or delivered under this Subcontract shall not include suspect or counterfeit items or parts nor shall counterfeit or suspect items or parts be used in performing any work under this Subcontract whether on or off the NREL operated facility. In the event that the Subcontractor or its lower-tier Subcontractors supplies or delivers suspect or counterfeit items or parts, such items or parts shall be impounded by NREL, or the Subcontractor shall remove the items or parts as directed by the NREL Subcontract Administrator. The Subcontractor shall promptly replace the counterfeit or suspect items or parts with supplies acceptable to NREL and the Subcontractor shall be liable for all costs relating to impoundment, removal, and replacement.
- (g) NREL Rights. The rights of NREL under this clause are in addition to any other rights provided by law or under this Subcontract and such rights shall survive the termination or natural completion of the period of performance of this Subcontract.

CLAUSE 6. RESTRICTIONS ON LOWER-TIER SUBCONTRACTOR SALES TO NREL/GOVERNMENT (OCT 2011)

Derived from FAR 52.203-6 (SEP 2006) (FD)

(Applies to all subcontracts exceeding \$150,000.)

- (a) Except as provided in (b) of this clause, the Subcontractor shall not enter into any agreement with an actual or prospective lower-tier Subcontractor, nor otherwise act in any manner, which has or may have the effect of restricting sales by such lower-tier Subcontractors directly to NREL/Government of any item or process (including computer software) made or furnished by the lower-tier Subcontractor under this subcontract or under any follow-on production subcontract.
- (b) The prohibition in (a) of this clause does not preclude the Subcontractor from asserting rights that are otherwise authorized by law or regulation.

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- (c) The Subcontractor agrees to incorporate the substance of this clause, including this paragraph (c), in all lower-tier subcontracts under this subcontract which exceed the simplified acquisition threshold.

CLAUSE 7. ANTI-KICKBACK PROCEDURES (OCT 2011)

Derived from FAR 52.203-7 (OCT 2010) (FD)

(Applies to all subcontracts exceeding \$150,000.)

- (a) Definitions.
 - (1) "Kickback," as used in this clause, means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided, directly or indirectly, to any Subcontractor, Subcontractor employee, lower-tier Subcontractor, or lower-tier Subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a subcontract or in connection with a lower-tier subcontract relating to a subcontract.
 - (2) "Person," as used in this clause, means a corporation, partnership, business association of any kind, trust, joint-stock company, or individual.
 - (3) "Subcontract," as used in this clause, means a subcontract or contractual action entered into by the National Renewable Energy Laboratory (NREL) for the purpose of obtaining supplies, materials, equipment, or services of any kind.
 - (4) "Subcontractor," as used in this clause, means a person who has entered into a subcontract with the NREL.
 - (5) "Subcontractor Employee," as used in this clause, means any officer, partner, employee, or agent of a Subcontractor.
 - (6) "Lower-tier Subcontract," as used in this clause, means a lower-tier subcontract or contractual action entered into by a Subcontractor or lower-tier Subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind under a subcontract.
 - (7) "Lower-tier Subcontractor," as used in this clause, means—
 - (i) Any person, other than the Subcontractor, who offers to furnish or furnishes any supplies, materials, equipment, or services of any kind under a subcontract or a lower-tier subcontract entered into in connection with such subcontract; and
 - (ii) Any person who offers to furnish or furnishes general supplies to the Subcontractor or a Prime Contractor.
 - (8) "Lower-tier Subcontractor employee," as used in this clause, means any officer, partner, employee, or agent of a lower-tier Subcontractor.
- (b) The Anti-Kickback Act of 1986 (41 U.S.C. 51-58) (the Act), prohibits any person from—
 - (1) Providing or attempting to provide or offering to provide any kickback;
 - (2) Soliciting, accepting, or attempting to accept any kickback; or
 - (3) Including, directly or indirectly, the amount of any kickback in the subcontract price charged by a Subcontractor to NREL or in the lower-tier subcontract price charged by a lower-tier Subcontractor to a Subcontractor or a Prime Contractor.
- (c)
 - (1) The Subcontractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in paragraph (b) of this clause in its own operations and direct business relationships.

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- (2) When the Subcontractor has reasonable grounds to believe that a violation described in paragraph (b) of this clause may have occurred, the Subcontractor shall promptly report in writing the possible violation. Such reports shall be made to the inspector general of the Department of Energy (DOE), the head of the DOE if the agency does not have an inspector general, or the Department of Justice.
- (3) The Subcontractor shall cooperate fully with any Federal agency and NREL investigating a possible violation described in paragraph (b) of this clause.
- (4) The NREL Subcontract Administrator may—
 - (i) Offset the amount of the kickback against any monies owed by NREL under the subcontract; and/or
 - (ii) Direct that the Subcontractor withhold from sums owed the lower-tier Subcontractor under the subcontract the amount of the kickback. The NREL Subcontract Administrator may order that monies withheld under subdivision (c)(4)(ii) of this clause be paid over to NREL or the Government unless NREL or Government has already offset those monies under subdivision (c)(4)(i) of this clause. In either case, the Subcontractor shall notify the NREL Subcontract Administrator when the monies are withheld.
- (5) The Subcontractor agrees to incorporate the substance of this clause, including subparagraph (c)(5) but excepting paragraph (c)(1), in all lower-tier subcontracts under this subcontract which exceed \$150,000.

CLAUSE 8. LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (OCT 2011)

Derived from FAR 52.203-12 (OCT 2010) (FD)

(Applies to all subcontracts exceeding \$150,000.)

- (a) Definitions. As used in this clause—
 - (1) "Agency," as used in this clause, means "executive agency" as defined in Federal Acquisition Regulation (FAR) 2.101.
 - (2) "Covered Federal action," as used in this clause, means any of the following actions:
 - (i) The awarding of any Federal contract or at any-tier.
 - (ii) The making of any Federal grant.
 - (iii) The making of any Federal loan.
 - (iv) The entering into any cooperative agreement.
 - (v) The extension, continuation renewal, amendment, or modification of any Federal contract or a subcontract at any-tier, grant, loan, or cooperative agreement.
 - (3) "Indian Tribe" and "tribal organization," as used in this clause, have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450b) and include Alaskan Natives.
 - (4) "Influencing or attempting to influence," as used in this clause, means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.
 - (5) "Local government," as used in this clause, means a unit of government in a State and, if chartered, established, or otherwise recognized by a State for the performance of a governmental duty, including a local public authority, a

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- special district, an intrastate district, a council of governments, a sponsor group representative organization, and any other instrumentality of a local government.
- (6) "Officer or employee of an agency," as used in this clause, includes the following individuals who are employed by an agency:
- (i) An individual who is appointed to a position in the Government under Title 5, United States Code, including a position under a temporary appointment.
 - (ii) A member of the uniformed services, as defined in subsection 101(3), Title 37, United States Code.
 - (iii) A special Government employee, as defined in section 202, Title 18, United States Code.
 - (iv) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, Title 5, United States Code, appendix 2.
- (7) "Person," as used in this clause, means an individual, corporation, company, association, authority, firm, partnership, society, state, and local government, regardless of whether such entity is operated for profit, or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization eligible to receive Federal contracts, subcontracts at any-tier, grants, cooperative agreements, or loans from an agency, but only with respect to expenditures by such tribe or organization that are made for purposes specified in paragraph (b) of this clause and are permitted by other Federal law.
- (8) "Reasonable compensation," as used in this clause, means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government.
- (9) "Reasonable payment," as used in this clause, means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.
- (10) "Recipient," as used in this clause, as used in this clause, includes the Subcontractor and all lower-tier Subcontractors. This term excludes an Indian tribe, tribal organization, or any other Indian organization eligible to receive Federal contracts, subcontracts at any-tier, grants, cooperative agreements, or loans from an agency, but only with respect to expenditures by such tribe or organization that are made for purposes specified in paragraph (b) of this clause and are permitted by other Federal law.
- (11) "Regularly employed," as used in this clause means, with respect to an officer or employee of a person requesting or receiving a Federal contract or subcontract at any-tier, an officer or employee who is employed by such person for at least one hundred thirty (130) working days within one (1) year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract or subcontract at any-tier. An officer or employee who is employed by such person for less than one hundred thirty (130) working days within one (1) year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for one hundred thirty (130) working days.

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- (12) "State," as used in this clause means a State of the United States, the District of Columbia, or an outlying area of the United States, an agency or instrumentality of a State, and multi-State, regional, or interstate entity having governmental duties and powers.
- (b) Prohibition. 31 U.S.C. 1352, among other things, prohibits a recipient of a Federal contract, subcontract, at any-tier, grant, loan, or cooperative agreement from using appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal actions. In accordance with 31 U.S.C. 1352 the Subcontractor or lower-tier Subcontractors shall not use appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the award of this subcontract or lower-tier subcontracts or the extension, continuation, renewal, amendment, or modification of this subcontract or lower-tier subcontracts.
- (1) The term appropriated funds does not include profit or fee from a covered Federal action.
- (2) To the extent the Subcontractor or lower-tier Subcontractor can demonstrate that the Subcontractor or lower-tier Subcontractor has sufficient monies, other than Federal appropriated funds, NREL/Government will assume that these other monies were spent for any influencing activities that would be unallowable if paid for with Federal appropriated funds.
- (c) Exceptions. The prohibition in paragraph (b) of this clause does not apply under the following conditions:
- (1) Agency and legislative liaison by Subcontractor or lower-tier Subcontractor employees.
- (i) Payment of reasonable compensation made to an officer or employee of the Subcontractor or lower-tier Subcontractor if the payment is for agency and legislative liaison activities not directly related to this subcontract or lower-tier subcontract. For purposes of this paragraph, providing any information specifically requested by an agency or Congress is permitted at any time.
- (ii) Participating with an agency in discussions that are not related to a specific solicitation for any covered Federal action, but that concern—
- (A) The qualities and characteristics (including individual demonstrations) of the person's products or services, conditions or terms of sale, and service capabilities; or
- (B) The application or adaptation of the person's products or services for an agency's use.
- (iii) Providing prior to formal solicitation of any covered Federal action any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered Federal action.
- (iv) Participating in technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and
- (v) Making capability presentations prior to formal solicitation of any covered Federal action by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Pub. L. 95-507, and subsequent amendments.
- (2) Professional and technical services.

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- (i) A payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.
 - (ii) Any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action. Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.
 - (iii) As used in paragraph (c) (2) of this clause, "professional and technical services" are limited to advice and analysis directly applying any professional or technical discipline (for examples, see FAR 3.803(a) (2) (iii)).
 - (iv) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation and any other requirements in the actual award documents.
- (3) Only those communications and services expressly authorized by paragraphs (c)(1) and (2) of this clause are permitted.
- (d) Disclosure.
- (1) If the Subcontractor or lower-tier Subcontractor did not submit OMB Standard Form LLL, Disclosure of Lobbying Activities, with its offer, but registrants under the Lobbying Disclosure Act of 1995 have subsequently made a lobbying contact on behalf of the Subcontractor or lower-tier Subcontractor with respect to this subcontract, the Subcontractor or lower-tier Subcontractor shall complete and submit OMB Standard Form LLL to provide the name of the lobbying registrants, including the individuals performing the services.
 - (2) If the Subcontractor or lower-tier Subcontractor did submit OMB Standard Form LLL disclosure pursuant to paragraph (d) of the provision at FAR 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions, and a change occurs that affects Block 10 of the OMB Standard Form LLL (name and address of lobbying registrant or individuals performing services), the Subcontractor or lower-tier Subcontractor shall, at the end of the calendar quarter in which the change occurs, submit to the NREL Subcontract Administrator within thirty (30) days an updated disclosure using OMB Standard Form LLL.
- (e) Penalties.
- (1) Any person who makes an expenditure prohibited under paragraph (b) of this clause or who fails to file or amend the disclosure to be filed or amended by paragraph (d) of this clause shall be subject to civil penalties as provided for by 31 U.S.C. 1352. An imposition of a civil penalty does not prevent the Government from seeking any other remedy that may be applicable.

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- (2) Subcontractors or lower-tier Subcontractors may rely without liability on the representation made by their lower-tier Subcontractors in the certification and disclosure form.
- (f) Cost allowability. Nothing in this clause makes allowable or reasonable any costs which would otherwise be unallowable or unreasonable. Conversely, costs made specifically unallowable by the requirements in this clause will not be made allowable under any other provision.
- (g) Lower-tier Subcontracts.
 - (1) The Subcontractor shall obtain a declaration, including the certification and disclosure in paragraphs (c) and (d) of the provision at FAR 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions, from each person requesting or receiving a subcontract, at any-tier, exceeding \$150,000 under this subcontract. The Subcontractor that awards the subcontract, at any-tier, shall retain the declaration.
 - (2) A copy of each lower-tier Subcontractor disclosure form (but not certifications) shall be forwarded from tier to tier until received by the Subcontractor. The Subcontractor shall, at the end of the calendar quarter in which the disclosure form is submitted by the Subcontractor, at any-tier, submit to the NREL Subcontract Administrator within thirty (30) days a copy of all disclosures. Each lower-tier Subcontractor certification shall be retained in the subcontract file.
 - (3) The Subcontractor shall include the substance of this clause, including this paragraph (g), in any lower-tier subcontract exceeding \$150,000.

**CLAUSE 9. PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER (SPECIAL)
(OCT 2011)**

Derived from FAR 52.204-4 (MAY 2011)

(Applies to all subcontracts exceeding \$150,000.)

- (a) Definitions. As used in this clause—
 - (1) "Postconsumer fiber"
 - (i) Paper, paperboard, and fibrous materials from retail stores, office buildings, homes, and so forth, after they have passed through their end-usage as a consumer item, including: used corrugated boxes; old newspapers; old magazines; mixed waste paper; tabulating cards; and used cordage; or
 - (ii) All paper, paperboard, and fibrous materials that enter and are collected from municipal solid waste; but not
 - (iii) Fiber derived from printers' over-runs, converter's scrap, and over-issue publications.
- (b) When not using electronic commerce methods to submit information or data to NREL/Government, the Subcontractor is required to submit paper documents, such as offers, letters, or reports, that are printed or copied double-sided on recycled paper containing at least thirty (30) percent postconsumer fiber.

CLAUSE 10. SYSTEM FOR AWARD MANAGEMENT (NOV 2016)

Derived from FAR 52.204-7 (JULY 2013)

(Applies to all subcontracts and solicitations.)

(a) Definitions. As used in this provision—

“Data Universal Numbering System (DUNS) number” means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

“Data Universal Numbering System +4 (DUNS+4) number” means the DUNS number means the number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional System for Award Management records for identifying alternative Electronic Funds Transfer (EFT) accounts (see the FAR at Subpart 32.11) for the same concern.

“Registered in the *System for Award Management (SAM) database*” means that—

The Offeror has entered all mandatory information, including the DUNS number or the DUNS+4 number, the Contractor and Government Entity (CAGE) code, as well as data required by the Federal Funding Accountability and Transparency Act of 2006 (see Subpart 4.14), into the SAM database; and

- (1) The offeror has completed the Core, Assertions, and Representations and Certification, and Points of contact sections of the registration in the SAM database;
 - (2) The Government has validated all mandatory data fields, to include validation of the Taxpayer Identification Number (TIN) with the Internal Revenue Service (IRS). The Offeror will be required to provide consent for TIN validation to the Government as a part of the SAM registration process.
 - (3) The Government has marked the record “Active”.
- (b)
- (1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the SAM database prior to award, during performance, and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement resulting from this solicitation.
 - (2) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation “DUNS” or “DUNS+4” followed by the DUNS or DUNS+4 number that identifies the offeror’s name and address exactly as stated in the offer. The DUNS number will be used by the NREL subcontract administrator to verify that the offeror is registered in the SAM database.
- (c) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one.
- (1) An offeror may obtain a DUNS number—
 - (i) Via the internet at <http://fedgov.dnb.com/webform> or if the offeror does not have internet access, it may call Dun and Bradstreet at 1-866-705-5711 if located within the United States; or
 - (ii) If located outside the United States, by contacting the local Dun and Bradstreet office. The offeror should indicate that it is an offeror for a subcontract funded by the U.S. Government when contacting the local Dun and Bradstreet office.

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- (2) The offeror should be prepared to provide the following information:
 - (i) Company legal business name.
 - (ii) Tradestyle, doing business, or other name by which your entity is commonly recognized.
 - (iii) Company Physical Street Address, City, State, and ZIP Code.
 - (iv) Company mailing address, city, state and ZIP Code (if separate from physical).
 - (v) Company telephone number.
 - (vi) Date the company was started.
 - (vii) Number of employees at your location.
 - (viii) Chief executive officer/key manager.
 - (ix) Line of business (industry).
 - (x) Company Headquarters name and address (reporting relationship within your entity).
- (d) If the Offeror does not become registered in the SAM database in the time prescribed by the NREL subcontract administrator, the NREL subcontract administrator will proceed to award to the next otherwise successful registered Offeror.
- (e) Processing time, which normally takes 48 hours, should be taken into consideration when registering. Offerors who are not registered should consider applying for registration immediately upon receipt of this solicitation.
- (f) Offerors may obtain information on registration at <https://www.acquisition.gov>.

CLAUSE 11. SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (NOV 2016)

Derived from FAR 52.204-13 (JULY 2013)

(Applies to all subcontracts.)

- (a) Definition. As used in this clause--

“Data Universal Numbering System (DUNS) number” means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities, which is used as the identification number for NREL Subcontractors.

“Data Universal Numbering System+4 (DUNS+4) number” means the DUNS number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional SAM records for identifying alternative Electronic Funds Transfer (EFT) accounts (see the FAR at subpart 32.11) for the same concern.

“Registered in the System for Award Management (SAM) database” means that—

- (1) The Subcontractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, the Subcontractor and government Entity (CAGE) code, as well as data required by the Federal Funding Accountability and Transparency Act of 2006 (see <https://www.fsrc.gov/>), into the SAM database;
- (2) The Subcontractor has completed the Core, Assertions, Representations and Certifications, and Points of Contact sections of the registration in the SAM database;
- (3) The Government has validated all mandatory data fields, to include validation of the Taxpayer Identification Number (TIN) with the Internal Revenue

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- Service (IRS). The Subcontractor will be required to provide consent for TIN validation to the Government as a part of the SAM registration process; and
- (4) The Government has marked the record "Active".

"System for Award Management (SAM)" means the primary Government repository for prospective Federal awardee and Federal awardee information and the centralized Government system for certain contracting, grants, and other assistance-related processes. It includes—

- (1) Data collected from prospective Federal subawardees required for the conduct of business with NREL;
 - (2) Prospective Subcontractor-submitted representations and certifications in accordance with FAR subpart 4.12; and
 - (3) Identification of those parties excluded from receiving Federal contracts, certain subcontracts, and certain types of Federal financial and non-financial assistance and benefits.
- (b) The Subcontractor is responsible for the accuracy and completeness of the data within the SAM database, and for any liability resulting from the NREL's reliance on inaccurate or incomplete data. To remain registered in the SAM database after the initial registration, the Subcontractor is required to review and update on an annual basis, from the date of initial registration or subsequent updates, its information in the SAM database to ensure it is current, accurate and complete. Updating information in the SAM does not alter the terms and conditions of this subcontract and is not a substitute for a properly executed subcontract document.
- (c)
- (1)
 - (i) If a Subcontractor has legally changed its business name, doing business as name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in subpart 42.12, the Subcontractor shall provide the responsible NREL subcontract administrator a minimum of one business day's written notification of its intention to—
 - (A) Change the name in the SAM database;
 - (B) Comply with the requirements of subpart 42.12 of the FAR; and
 - (C) Agree in writing to the timeline and procedures specified by the responsible NREL subcontract administrator. The Subcontractor shall provide with the notification sufficient documentation to support he legally changed name.
 - (ii) If the Subcontractor fails to comply with the requirements of paragraph (c)(1)(i) of this clause, or fails to perform the agreement at paragraph (c)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the SAM information that shows the Subcontractor to be other than the Subcontractor indicated in the subcontract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this subcontract.
 - (2) The Subcontractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the SAM record to reflect an assignee

for the purpose of assignment of claims (see FAR subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the SAM. Information provided to the Subcontractor's SAM record that indicates payments, including those made by EFT, to an ultimate recipient other than that Subcontractor will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the EFT clause of this contract.

- (3) The Subcontractor shall ensure that the DUNS number is maintained with Dun & Bradstreet throughout the life of the subcontract. The Subcontractor shall communicate any change to the DUNS number to the NREL subcontract administrator within 30 days after the change, so an appropriate modification can be issued to update the data on the contract. A change in the DUNS number does not necessarily require a novation be accomplished. Dun & Bradstreet may be contacted—
 - (i) Via the internet at <http://fedgov.dnb.com/webform> or if the Subcontractor does not have internet access, it may call Dun and Bradstreet at 1-866-705-5711 if located within the United States; or
 - (ii) If located outside the United States, by contacting the local Dun and Bradstreet office.
- (d) Subcontractors may obtain additional information on registration and annual confirmation requirements at <https://www.acquisition.gov>.

CLAUSE 12. PROTECTING NREL'S/GOVERNMENT'S INTEREST WHEN SUBCONTRACTING AT ANY TIER WITH CONTRACTORS AND SUBCONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (AUG 2013)

Derived from FAR 52.209-6 (FD)

(Applies to all subcontracts with lower-tier subcontracts exceeding \$30,000.)

- (a) Definition. "Commercially available off-the-shelf (COTS)" item, as used in this clause—
 - (1) Means any item of supply (including construction material) that is—
 - (i) A commercial item (as defined in paragraph (1) of the definition in FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the NREL/Government, under a subcontract or a lower-tier subcontract, at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
 - (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.
- (b) The Government suspends or debar Contractors to protect the Government's interests. Other than a subcontract for a commercially available off-the-shelf item, the Subcontractor shall not enter into any lower-tier subcontract in excess of \$30,000 with a lower-tier Subcontractor that is debarred, suspended, or proposed for debarment unless there is a compelling reason to do so.
- (c) The Subcontractor shall require each proposed lower-tier Subcontractor, whose lower-tier subcontract will exceed \$30,000, other than a lower-tier Subcontractor providing a commercially available off-the-shelf item, to disclose to the lower-tier Subcontractor, in writing, whether as of the time of award of the lower-tier subcontract, the lower-tier Subcontractor, or its principals, is or is not debarred, suspended, or proposed for debarment by the Federal Government.

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- (d) A corporate officer or a designee of the Subcontractor shall notify the NREL Subcontract Administrator, in writing, before entering into a lower-tier subcontract with a party (other than a lower-tier Subcontractor providing a commercially available off-the-shelf item) that is debarred, suspended, or proposed for debarment (see FAR 9.404 for information on the System for Award Management (SAM) Exclusions). The notice must include the following:
 - (1) The name of the lower-tier Subcontractor.
 - (2) The Subcontractor's knowledge of the reasons for the lower-tier Subcontractor being listed with an exclusion in SAM.
 - (3) The compelling reason(s) for doing business with the lower-tier Subcontractor notwithstanding its being listed with an exclusion in SAM.
 - (4) The systems and procedures the Subcontractor has established to ensure that it is fully protecting NREL/Government's interests when dealing with such lower-tier Subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.
- (e) Lower-tier Subcontracts. Unless this is a subcontract for the acquisition of commercial items, the Subcontractor shall include the requirements of this clause, including this paragraph (e) (appropriately modified for the identification of the parties), in each lower-tier subcontract that—
 - (1) Exceeds \$30,000 in value; and
 - (2) Is not a lower-tier subcontract for commercially available off-the-shelf items.

CLAUSE 13. AUDIT AND RECORDS NEGOTIATION (DEC 2016) AND ALTERNATE II (APR 1998)

Derived from FAR 52.215-2 (OCT 2010) (FD)

(Applies to all subcontracts exceeding \$150,000.)

(Alternate I applies to cost type subcontracts with State and Local Governments, educational institutions, and other nonprofit organizations.)

- (a) As used in this clause, "records" includes books, documents, accounting procedures and practices, and other data, regardless of type and regardless of whether such items are in written form, in the form of computer data, or in any other form.
- (b) Examination of costs. If this is a cost reimbursement, incentive, time-and-materials, labor-hour, or price redeterminable subcontract, or any combination of these, the Subcontractor shall maintain and the DOE Contracting Officer, the cognizant Federal Agency Official, or the NREL Subcontract Administrator, shall have the right to examine and audit all records and other evidence sufficient to reflect properly all costs claimed to have been incurred or anticipated to be incurred directly or indirectly in performance of this subcontract. This right of examination shall include inspection at all reasonable times of the Subcontractor's plants, or parts of them, engaged in performing the subcontract.
- (c) Cost or pricing data. If the Subcontractor has been required to submit cost or pricing data in connection with any pricing action relating to this subcontract, the DOE Contracting Officer, the cognizant Federal Agency Official, or the NREL Subcontract Administrator, in order to evaluate the accuracy, completeness, and currency of the cost or pricing data, shall have the right to examine and audit all of the Subcontractor's records, including computations and projections, related to—
 - (1) The proposal for the subcontract, lower-tier subcontract, or modification;
 - (2) The discussions conducted on the proposal(s), including those related to negotiating;
 - (3) Pricing of the subcontract, lower-tier subcontract, or modification; or

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- (4) Performance of the subcontract, lower-tier subcontract, or modification.
- (d) Comptroller General.—
- (1) The Comptroller General of the United States, or an authorized representative, shall have access to and the right to examine any of the Subcontractor's directly pertinent records involving transactions related to this subcontract or a lower-tier subcontract hereunder and to interview any current employee regarding such transactions.
 - (2) This paragraph may not be construed to require the Subcontractor or lower-tier Subcontractor to create or maintain any record that the Subcontractor or lower-tier Subcontractor does not maintain in the ordinary course of business or pursuant to a provision of law.
- (e) Reports. If the Subcontractor is required to furnish cost, funding, or performance reports, the DOE Contracting Officer, the cognizant Federal Agency Official or the NREL Subcontract Administrator shall have the right to examine and audit the supporting records and materials, for the purpose of evaluating—
- (1) The effectiveness of the Subcontractor's policies and procedures to produce data compatible with the objectives of these reports; and
 - (2) The data reported.
- (f) Availability. The Subcontractor shall make available at its office at all reasonable times the records, materials, and other evidence described in paragraphs (a), (b), (c), (d), and (e) of this clause, for examination, audit, or reproduction, until three (3) years after final payment under this subcontract or for any shorter period specified in Subpart 4.7, Subcontractor Records Retention, of the Federal Acquisition Regulation (FAR), or for any longer period required by statute or by other clauses of this subcontract. In addition—
- (1) If this subcontract is completely or partially terminated, the Subcontractor shall make available the records relating to the work terminated until three (3) years after any resulting final termination settlement; and
 - (2) The Subcontractor shall make available records relating to appeals under the Subcontract Issues and Disputes clause or to litigation or the settlement of claims arising under or relating to this subcontract until such appeals, litigation, or claims are finally resolved.
- (g) The Subcontractor shall insert a clause containing all the terms of this clause, including this paragraph (g), in all lower-tier subcontracts under this subcontract that exceed the simplified acquisition threshold, and—
- (1) That are cost reimbursement, incentive, time-and-materials, labor-hour, or price-redeterminable type or any combination of these;
 - (2) For which cost or pricing data are required; or
 - (3) That requires the lower-tier Subcontractor to furnish reports as discussed in paragraph (e) of this clause.
- The clause may be altered only as necessary to identify properly the contracting parties and the DOE Contracting Officer or NREL Subcontract Administrator under the Government Prime Contract.

ALTERNATE II (APR 1998).

For cost type subcontracts with State and Local Governments, educational institutions, and other nonprofit organizations, the following paragraph (h) shall be added.

- (h) The provisions of OMB Circular No.A-133, "Audits of States, Local Governments, and Nonprofit Organizations," apply to this subcontract.

CLAUSE 14. NOTIFICATION OF CHANGE IN OWNERSHIP AND/OR NAME (OCT 2009)

Derived from FAR 52.215-19 (OCT 1997) (FD)

(Applies to all subcontracts.)

- (a) The Subcontractor shall make the following notifications in writing:
 - (1) When the Subcontractor becomes aware that a change in its ownership or name has occurred, or is certain to occur, the Subcontractor shall provide such notification in accordance with NREL's novation and name change procedures.
 - (2) When a change that could result in changes in the valuation of the Subcontractor's capitalized assets in the accounting records or any other asset valuations or cost changes, the Subcontractor shall provide such notification to the NREL Subcontract Administrator within thirty (30) days.
- (b) In the event of change in ownership, the Subcontractor shall—
 - (1) Maintain current, accurate, and complete inventory records of assets and their costs;
 - (2) Provide the NREL Subcontract Administrator or designated representative ready access to the records upon request;
 - (3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives, are identified accurately before and after each of the Subcontractor's ownership changes; and
 - (4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Subcontractor ownership change.
- (c) The Subcontractor shall include the substance of this clause in all lower-tier subcontracts where it is contemplated that cost or pricing data will be required or for which any pre-award or post-award cost determination is subject to FAR 31.2, cost principles and procedures applicable to commercial organizations. The Subcontractor shall notify the NREL Subcontract Administrator of the change in ownership or name of any lower-tier Subcontractor subject to the terms of this clause.

CLAUSE 15. UTILIZATION OF SMALL BUSINESS CONCERNS (NOV 2016)

Derived from FAR 52.219-8 (FD)(OCT 2014)

(Applies to all subcontracts exceeding \$150,000.)

- (a) Definitions. As used in this subcontract—
 - "*HUBZone small business concern*" means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.
 - "*Service-disabled veteran-owned small business concern*"—
 - (1) Means a *small business concern*—
 - (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
 - (ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2)

Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

Small business concern means a small business as defined pursuant to Section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto.

Small disadvantaged business concern, consistent with 13 CFR 124.1002, means a small business concern under the size standard applicable to the acquisition, that—

- (1) Is at least 51 percent unconditionally and directly owned (as defined at 13 CFR 124.105) by—
 - (i) One or more socially disadvantaged (as defined at 13 CFR 124.103) and economically disadvantaged (as defined at 13 CFR 124.104) individuals who are citizens of the United States; and
 - (ii) Each individual claiming economic disadvantage has a net worth not exceeding \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and
- (2) The management and daily business operations of which are controlled (as defined at 13.CFR 124.106) by individuals, who meet the criteria in paragraphs (1)(i) and (ii) of this definition.

Veteran-owned small business concern means a *small business concern*—

- (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and
- (2) The management and daily business operations of which are controlled by one or more veterans.

Women-owned small business concern means a *small business concern*—

- (1) That is at least 51 percent owned by one or more women, or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and
- (2) Whose management and daily business operations are controlled by one or more women.

- (b) It is the policy of the United States that small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns shall have the maximum practicable opportunity to participate in performing subcontracts let by any Federal agency, including subcontracts and lower-tier subcontracts for subsystems, assemblies, components, and related services for major systems. It is further the policy of the United States that its prime contractors and subcontractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns.
- (c) The Subcontractor hereby agrees to carry out this policy in the awarding of lower-tier subcontracts to the fullest extent consistent with efficient subcontract performance. The Subcontractor further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the awarding

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agency of the United States as may be necessary to determine the extent of the Subcontractor's compliance with this clause.

- (d) (1) Subcontractors acting in good faith may rely on written representations by their lower-tier subcontractors regarding their status as a small business concern, a veteran-owned small business concern, a service-disabled veteran-owned small business concern, a small disadvantaged business concern, or a women-owned small business concern.
- (2) The Subcontractor shall confirm that a lower-tier subcontractor representing itself as a HUBZone small business concern is certified by SBA as a HUBZone small business concern by accessing the System for Award Management database or by contacting the SBA. Options for contacting the SBA include—
 - (i) HUBZone small business database search application web page at http://dsbs.sba.gov/dsbs/search/dsp_searchhubzone.cfm; or <http://www.sba.gov/hubzone>;
 - (ii) In writing to the Director/HUB, U.S. Small Business Administration, 409 3rd Street, SW., Washington, DC 20416; or
 - (iii) The SBA HUBZone Help Desk at hubzone@sba.gov.

CLAUSE 16. CONVICT LABOR (JUN 2003)

Derived from FAR 52.222-3

(Applies to all subcontracts.)

- (a) Except as provided in paragraph (b) of this clause, the Subcontractor shall not employ in the performance of this subcontract any person undergoing a sentence of imprisonment imposed by any court of a State, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, or the U.S. Virgin Islands.
- (b) The Subcontractor is not prohibited from employing persons—
 - (1) On parole or probation to work at paid employment during the term of their sentence;
 - (2) Who have been pardoned or who have served their terms; or
 - (3) Confined for violation of the laws of any of the States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, or the U.S. Virgin Islands who are authorized to work at paid employment in the community under the laws of such jurisdiction, if—
 - (i) The worker is paid or is in an approved work training program on a voluntary basis;
 - (ii) Representatives of local union central bodies or similar labor union organizations have been consulted;
 - (iii) Such paid employment will not result in the displacement of employed workers, or be applied in skills, crafts, or trades in which there is a surplus of available gainful labor in the locality, or impair existing contracts for services;
 - (iv) The rates of pay and other conditions of employment will not be less than those paid or provided for work of a similar nature in the locality in which the work is being performed; and
 - (v) The Attorney General of the United States has certified that the work-release laws or regulations of the jurisdiction involved are in conformity with the requirements of Executive Order 11755, as amended by Executive Orders 12608 and 12943.

CLAUSE 17. WALSH-HEALEY PUBLIC CONTRACTS ACT (OCT 2011)

Derived from FAR 52.222-20 (OCT 2010) (FD)

(Applies to all subcontracts exceeding \$15,000 for manufacturing or furnishing of materials, supplies, articles, or equipment subject to the Walsh-Healey Public Contracts Act.)

If this subcontract is for the manufacture or furnishing of materials, supplies, articles or equipment in an amount that exceeds or may exceed \$15,000, and is subject to the Walsh-Healey Public Contracts Act, as amended (41 U.S.C. 35-45), the following terms and conditions apply:

- (a) All stipulations required by the Act and regulations issued by the Secretary of Labor (41 CFR Chapter 50) are incorporated by reference. These stipulations are subject to all applicable rulings and interpretations of the Secretary of Labor that are now, or may hereafter, be in effect.
- (b) All employees whose work relates to this subcontract shall be paid not less than the minimum wage prescribed by regulations issued by the Secretary of Labor (41 CFR 50-202.2). Learners, student learners, apprentices, and handicapped workers may be employed at less than the prescribed minimum wage (see 41 CFR 50-202.3) to the same extent that such employment is permitted under Section 14 of the Fair Labor Standards Act (41 U.S.C. 40).

CLAUSE 18. PROHIBITION OF SEGREGATED FACILITIES (FEB 1999)

Derived from FAR 52.222-21 (FD)

(Applies to subcontracts where the "Equal Opportunity Clause" is applicable.)

- (a) "Segregated facilities," as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.
- (b) The Subcontractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Subcontractor agrees that a breach of this clause is a violation of the Equal Opportunity clause in this contract.
- (c) The Subcontractor shall include this clause in every lower-tier subcontract and purchase order that is subject to the Equal Opportunity clause of this contract.

CLAUSE 19. EQUAL OPPORTUNITY (MAR 2007)

Derived from FAR 52.222-26 (FD)

(Applies to all subcontracts unless exempt from Executive Order 11246.) (See FAR 22.807(a).)

- (a) Definition. "United States," as used in this clause, means the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.
- (b) (1) If, during any twelve (12) month period (including the twelve (12) months preceding the award of this subcontract), the Subcontractor has been or is awarded nonexempt Federal contracts and/or subcontracts that have an aggregate value in excess of \$10,000, the Subcontractor shall comply with

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- this clause, except for work performed outside the United States by employees who were not recruited within the United States. Upon request, the Subcontractor shall provide information necessary to determine the applicability of this clause.
- (2) If the Subcontractor is a religious corporation, association, educational institution, or society, the requirements of this clause do not apply with respect to the employment of individuals of a particular religion to perform work connected with the carrying on of the Subcontractor's activities (41 CFR 60-1.5).
- (c)
- (1) The Subcontractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. However, it shall not be a violation of this clause for the Subcontractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation, in connection with employment opportunities on or near an Indian reservation, as permitted by 41 CFR 60-1.5.
 - (2) The Subcontractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. This shall include, but not be limited to—
 - (i) Employment;
 - (ii) Upgrading;
 - (iii) Demotion;
 - (iv) Transfer;
 - (v) Recruitment or recruitment advertising;
 - (vi) Layoff or termination;
 - (vii) Rates of pay or other forms of compensation; and
 - (viii) Selection for training, including apprenticeship.
 - (3) The Subcontractor shall post in conspicuous places available to employees and applicants for employment the notices to be provided by the NREL Subcontract Administrator that explain this clause.
 - (4) The Subcontractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Subcontractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
 - (5) The Subcontractor shall send, to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the NREL Subcontract Administrator advising the labor union or workers' representative of the Subcontractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.
 - (6) The Subcontractor shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.
 - (7) The Subcontractor shall furnish to NREL all information required by Executive Order 11246, as amended, and by the rules, regulations, and orders of the Secretary of Labor. The Subcontractor shall also file Standard Form 100 (EEO-1), or any successor form, as prescribed in 41 CFR Part 60-1. Unless the Subcontractor has filed within the twelve (12) months preceding the date of subcontract award, the Subcontractor shall, within thirty (30) days after subcontract award, apply to either the regional Office of Federal Contract

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- Compliance Programs (OFCCP) or the local office of the Equal Employment Opportunity Commission for the necessary forms.
- (8) The Subcontractor shall permit access to its premises, during normal business hours, by NREL/Government or the OFCCP for the purpose of conducting on-site compliance evaluations and complaint investigations. The Subcontractor shall permit the NREL/Government to inspect and copy any books, accounts, records (including computerized records), and other material that may be relevant to the matter under investigation and pertinent to compliance with Executive Order 11246, as amended, and rules and regulations that implement the Executive Order.
 - (9) If the OFCCP determines that the Subcontractor is not in compliance with this clause or any rule, regulation, or order of the Secretary of Labor, this subcontract may be canceled, terminated, or suspended in whole or in part and the Subcontractor may be declared ineligible for further NREL/Government contracts/subcontracts, under the procedures authorized in Executive Order 11246, as amended. In addition, sanctions may be imposed and remedies invoked against the Subcontractor as provided in Executive Order 11246, as amended; in the rules, regulations, and orders of the Secretary of Labor; or as otherwise provided by law.
 - (10) The Subcontractor shall include the terms and conditions of this clause in every lower-tier subcontract or purchase order that is not exempted by the rules, regulations, or orders of the Secretary of Labor issued under Executive Order 11246, as amended, so that these terms and conditions will be binding upon each lower-tier Subcontractor or vendor.
 - (11) The Subcontractor shall take such action with respect to any lower-tier subcontract or purchase order as the NREL Subcontract Administrator may direct as a means of enforcing these terms and conditions, including sanctions for noncompliance, provided, that if the Subcontractor becomes involved in, or is threatened with, litigation with a lower-tier Subcontractor or vendor as a result of any direction, the Subcontractor may request the United States to enter into the litigation to protect the interests of the United States.
- (d) Notwithstanding any other clause in this subcontract, disputes relative to this clause will be governed by the procedures in 41 CFR 60-1.1.

CLAUSE 20. EQUAL OPPORTUNITY FOR VETERANS (SEP 2010)

Derived from FAR 52.222-35 (FD)

(Applies to all subcontracts exceeding \$100,000.)

- (a) Definitions. As used in this clause—
 - (1) "All employment openings" means all positions except executive and senior management, those positions that will be filled from within the Subcontractor's organization, and positions lasting three (3) days or less. This term includes full-time employment, temporary employment of more than three (3) days duration, and part-time employment.
 - (2) "Armed Forces service medal veteran" means any veteran who, while serving on active duty in the U.S. military, ground, naval, or air service, participated in a United States military operation for which an Armed Forces service medal was awarded pursuant to Executive Order 12985 (61 FR 1209).
 - (3) "Disabled veteran" means—
 - (i) A veteran of the U.S. military, ground, naval, or air service, who is entitled to compensation (or who but for the receipt of military retired

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- pay would be entitled to compensation) under laws administered by the Secretary of Veterans Affairs; or
- (ii) A person who was discharged or released from active duty because of a service-connected disability.
- (4) "Executive and senior management" means any employee—
- (i) Any employee—
 - (A) Compensated on a salary basis a rate of not less than \$455 per week (or \$380 per week, if employed in American Samoa by employers other than the Federal Government), exclusive of board, lodging or other facilities;
 - (B) Whose primary duty consists of the management of the enterprise in which the individual is employed or of a customarily recognized department or subdivision thereof;
 - (C) Who customarily and regularly directs the work of two (2) or more other employees; and
 - (D) Who has the authority to hire or fire other employees or whose suggestions and recommendations as to the hiring or firing and as to the advancement and promotion or any other change of status of other employees will be given particular weight; or
 - (ii) Any employee who owns at least a bona fide 20-percent equity interest in the enterprise in which the employee is employed, regardless of whether the business is a corporate or other type of organization, and who is actively engaged in its management.
- (5) "Other protected veteran" means a veteran who served on active duty in the U.S. military, ground, naval, or air service, during a war or in a campaign or expedition for which a campaign badge has been authorized under the laws administered by the Department of Defense.
- (6) "Positions that will be filled from within the Subcontractor's organization" means employment openings for which the Subcontractor will give no consideration to persons outside the Subcontractor's organization (including any affiliates, subsidiaries, and parent companies) and includes any openings the Subcontractor proposes to fill from regularly established "recall" lists. The exception does not apply to a particular opening once an employer decides to consider applicants outside of its organization.
- (7) "Qualified disabled veteran" means a disabled veteran who has the ability to perform the essential functions of the employment positions with or without reasonable accommodation.
- (8) "Recently separated veteran" means any veteran during the three-year period beginning on the date of such veteran's discharge or release from active duty in the U.S. military, ground, naval or air service.
- (b) General.
- (1) The Subcontractor shall not discriminate against any employee or applicant for employment because the individual is a disabled veteran, recently separated veteran, other protected veterans, or Armed Forces service medal veteran, regarding any position for which the employee or applicant for employment is qualified. The Subcontractor shall take affirmative action to employ, advance in employment, and otherwise treat qualified individuals, including qualified disabled veterans, without discrimination based upon their disability status as a disabled veteran, recently separated veteran, Armed

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Forces service medal veteran, and other protected veteran in all employment practices including the following:

- (i) Recruitment, advertising, and job application procedures;
 - (ii) Hiring, upgrading, promotion, award of tenure, demotion, transfer, layoff, termination, right of return from layoff and rehiring;
 - (iii) Rate of pay or any other form of compensation and changes in compensation;
 - (iv) Job assignments, job classifications, organizational structures, position descriptions, lines of progression, and seniority lists;
 - (v) Leaves of absence, sick leave, or any other leave;
 - (vi) Fringe benefits available by virtue of employment, whether or not administered by the Subcontractor;
 - (vii) Selection and financial support for training, including apprenticeship, and on-the-job training under 38 U.S.C. 3687, professional meetings, conferences, and other related activities, and selection for leaves of absence to pursue training;
 - (viii) Activities sponsored by the Subcontractor including social or recreational programs; and
 - (ix) Any other term, condition, or privilege of employment.
- (2) The Subcontractor shall comply with the rules, regulations, and relevant orders of the Secretary of Labor issued under the Vietnam Era Veterans' Readjustment Assistance Act of 1972 (the Act), as amended (38 U.S.C. 4211 and 4212).
 - (3) The Department of Labor's regulations require Subcontractors with 50 or more employees and subcontract of \$100,000 or more to have an affirmative action program for veterans. See 41 CFR Part 60-300, Subpart C.
- (c) Listing openings.
- (1) The Subcontractor shall immediately list all employment openings that exist at the time of the execution of this subcontract and those which occur during the performance of this subcontract, including those not generated by this subcontract, and including those occurring at an establishment of the Subcontractor other than the one where the subcontract is being performed, but excluding those of independently operated corporate affiliates, at an appropriate employment service delivery system where the opening occurs. Listing employment openings with the State workforce agency job bank or with the local employment service delivery system where the opening occurs shall satisfy the requirement to list jobs with the appropriate employment service delivery system.
 - (2) The Subcontractor shall make the listing of employment openings with the appropriate employment service delivery system at least concurrently with using any other recruitment source or effort and shall involve the normal obligations of placing a bona fide job order, including accepting referrals of veterans and nonveterans. This listing of employment openings does not require hiring any particular job applicant or hiring from any particular group of job applicants and is not intended to relieve the Subcontractor from any requirements of Executive orders or regulations concerning nondiscrimination in employment.
 - (3) Whenever the Subcontractor becomes contractually bound to the listing terms of this clause, it shall advise the State workforce agency in each State where it has establishments of the name and location of each hiring location in the State. As long as the Subcontractor is contractually bound to these

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- terms and has so advised the State agency, it need not advise the State agency of subsequent contracts/subcontracts. The Subcontractor may advise the State agency when it is no longer bound by this subcontract clause.
- (d) **Applicability.** This clause does not apply to the listing of employment openings that occur and are filled outside the 50 States, the District of Columbia, the Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.
 - (e) **Postings.**
 - (1) The Subcontractor shall post employment notices in conspicuous places that are available to employees and applicants for employment.
 - (2) The employment notices shall—
 - (i) State the rights of applicants and employees as well as the Subcontractor's obligation under the law to take affirmative action to employ and advance in employment qualified employees and applicants who are disabled veterans, recently separated veterans, Armed Forces service medal veterans and other protected veterans; and
 - (ii) Be in a form prescribed by the Director, Office of Federal Contract Compliance Programs, and provided by the DOE Contracting Officer through the NREL Subcontract Administrator.
 - (3) The Subcontractor shall ensure that applicants or employees who are special disabled veterans are informed of the contents of the notice (e.g., the Subcontractor may have the notice read to a visually disabled veteran, or may lower the posted notice so that it can be read by a person in a wheelchair).
 - (4) The Subcontractor shall notify each labor union or representative of workers with which it has a collective bargaining agreement, or other contract understanding, that the Subcontractor is bound by the terms of the Act and is committed to take affirmative action to employ, and advance in employment, qualified disabled veterans, recently separated veterans, protected veterans, and Armed Forces service medal veterans.
 - (f) **Noncompliance.** If the Subcontractor does not comply with the requirements of this clause, NREL/Government may take appropriate actions under the rules, regulations, and relevant orders of the Secretary of Labor. This includes implementing any sanctions imposed on a Subcontractor by the Department of Labor for violations of this clause (52.222-35, Equal Opportunity for Veterans). These sanctions (see 41 CFR 60-300.66) may include—
 - (1) Withholding progress payments;
 - (2) Termination or suspension of the subcontract; or
 - (3) Debarment of the Subcontractor
 - (g) **Lower-tier subcontracts.** The Subcontractor shall insert the terms of this clause in all lower-tier subcontracts of \$100,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor. The Subcontractor shall act as specified by the Director, Office of Federal Contract Compliance Programs, to enforce the terms, including action for noncompliance.

CLAUSE 21. AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES (OCT 2011)

Derived from FAR 52.222-36 (OCT 2010) (FD)

(Applies to all subcontracts exceeding \$15,000.)

(a) General.

- (1) Regarding any position for which the employee or applicant for employment is qualified, the Subcontractor shall not discriminate against any employee or applicant because of physical or mental disability. The Subcontractor agrees to take affirmative action to employ, advance in employment, and otherwise treat qualified individuals with disabilities without discrimination based upon their physical or mental disability in all employment practices such as—
 - (i) Recruitment, advertising, and job application procedures;
 - (ii) Hiring, upgrading, promotion, award of tenure, demotion, transfer, layoff, termination, right of return from layoff, and rehiring;
 - (iii) Rates of pay or any other form of compensation and changes in compensation;
 - (iv) Job assignments, job classifications, organizational structures, position descriptions, lines of progression, and seniority lists;
 - (v) Leaves of absence, sick leave, or any other leave;
 - (vi) Fringe benefits available by virtue of employment, whether or not administered by the Subcontractor;
 - (vii) Selection and financial support for training, including apprenticeships, professional meetings, conferences, and other related activities, and selection for leaves of absence to pursue training;
 - (viii) Activities sponsored by the Subcontractor, including social or recreational programs; and
 - (ix) Any other term, condition, or privilege of employment.
- (2) The Subcontractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor (Secretary) issued under the Rehabilitation Act of 1973 (29 U.S.C.793) (the Act), as amended.

(b) Postings.

- (1) The Subcontractor agrees to post employment notices stating—
 - (i) The Subcontractor's obligation under the law to take affirmative action to employ and advance in employment qualified individuals with disabilities; and
 - (ii) The rights of applicants and employees.
- (2) These notices shall be posted in conspicuous places that are available to employees and applicants for employment. The Subcontractor shall ensure that applicants and employees with disabilities are informed of the contents of the notice (e.g., the Subcontractor may have the notice read to a visually disabled individual, or may lower the posted notice so that it might be read by a person in a wheelchair). The notices shall be in a form prescribed by the Deputy Assistant Secretary for Federal Contract Compliance of the U.S. Department of Labor (Deputy Assistant Secretary).
- (3) The Subcontractor shall notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the Subcontractor is bound by the terms of Section 503 of the Act and is committed to take affirmative action to employ, and advance in employment, qualified individuals with physical or mental disabilities.

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- (c) Noncompliance.
If the Subcontractor does not comply with the requirements of this clause, appropriate actions may be taken under the rules, regulations, and relevant orders of the Secretary issued pursuant to the Act.
- (d) Lower-tier Subcontracts.
The Subcontractor shall include the terms of this clause in every subcontract or purchase order in excess of \$15,000 unless exempted by rules, regulations, or orders of the Secretary. The Subcontractor shall act as specified by the Deputy Assistant Secretary to enforce the terms, including action for noncompliance.

CLAUSE 22. EMPLOYMENT REPORTS ON VETERANS (SEP 2010)

Derived from FAR 52.222-37 (FD)

(Applies to all subcontracts exceeding \$100,000.)

- (a) Definitions. As used in this clause, "Armed Forces service medal veteran," "disabled veteran," "other protected veteran," and "recently separated veteran," have the meanings given in the Equal Opportunity for Veterans clause.
- (b) Unless the Subcontractor is a State or local government agency, the Subcontractor shall report at least annually, as required by the Secretary of Labor, on—
 - (1) The total number of employees in the Subcontractor's workforce, by job category and hiring location, who are disabled veterans, other protected veterans, Armed Forces service medal veterans, and recently separated veterans.
 - (2) The total number of new employees hired during the period covered by the report, and of the total, the number of disabled veterans, other protected veterans, Armed Forces service medal veterans, and recently separated veterans; and
 - (3) The maximum number and the minimum number of employees of the Subcontractor or lower-tier Subcontractor at each hiring location during the period covered by the report.
- (c) The Subcontractor shall report the above items by completing the Form VETS-100A, entitled "Federal Contractor Veterans' Employment Report (VETS-100A Report)."
- (d) The Subcontractor shall submit VETS-100A Reports no later than September 30 of each year.
- (e) The employment activity report required by paragraph (b)(2) and (b)(3) of this clause shall reflect total new hires, and maximum and minimum number of employees, during the most recent twelve (12) month period preceding as of the ending date selected for the Subcontractors may select an ending date—
 - (1) As of the end of any pay period between July 1 and August 31 of the year the report is due; or
 - (2) As of December 31, if the Subcontractor has prior written approval from the Equal Employment Opportunity Commission to do so for purposes of submitting the Employer Information Report EEO-1 (Standard Form 100).
- (f) The number of veterans reported must be based on data known to the Subcontractor when completing the VETS-100A. The Subcontractor's knowledge of veterans status may be obtained in a variety of ways, including an invitation to applicants to self-identify (in accordance with 41 CFR60-300.42), voluntary self-disclosure by employees, or actual knowledge of veteran status by the Subcontractor. This paragraph does not relieve an employer of liability for discrimination under 38 U.S.C. 4212.

- (g) The Subcontractor shall insert the terms of this clause in all lower-tier subcontracts of \$100,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor.

CLAUSE 23. NOTIFICATION OF EMPLOYEE RIGHTS UNDER THE NATIONAL LABOR RELATIONS ACT (SPECIAL) (NOV 2016)

Derived from FAR 52.222-40(OCT 2010)

(Applies to all Subcontracts exceeding \$150,000)

- (a) During the term of this subcontract, the Subcontractor shall post an employee notice, of such size and in such form, and containing such content as prescribed by the Secretary of Labor, in conspicuous places in and about its plants and offices where employees covered by the National Labor Relations Act engage in activities relating to the performance of the subcontract, including all places where notices to employees are customarily posted both physically and electronically, in the languages employees speak, in accordance with 29 CFR 471.2 (d) and (f).
 - (1) Physical posting of the employee notice shall be in conspicuous places in and about the Subcontractor's plants and offices so that the notice is prominent and readily seen by employees who are covered by the National Labor Relations Act and engage in activities related to the performance of the subcontract.
 - (2) If the Subcontractor customarily posts notices to employees electronically, then the Subcontractor shall also post the required notice electronically by displaying prominently, on any website that is maintained by the Subcontractor and is customarily used for notices to employees about terms and conditions of employment, a link to the Department of Labor's website that contains the full text of the poster. The link to the Department's website, as referenced in (b)(3) of this section, must read, "Important Notice about Employee Rights to Organize and Bargain Collectively with Their Employers."
- (b) This required employee notice, printed by the Department of Labor, may be—
 - (1) Obtained from the Division of Interpretations and Standards, Office of Labor-Management Standards, U.S. Department of Labor, 200 Constitution Avenue, NW., Room N-5609, Washington, DC 20210, (202) 693-0123, or from any field office of the Office of Labor-Management Standards or Office of Federal Contract Compliance Programs;
 - (2) Downloaded from the Office of Labor-Management Standards Web site at <http://www.dol.gov/olms/regs/compliance/EO13496.htm>; or
 - (3) Reproduced and used as exact duplicate copies of the Department of Labor's official poster.
- (c) The required text of the employee notice referred to in this clause is located at Appendix A, Subpart A, 29 CFR Part 471.
- (d) The Subcontractor shall comply with all provisions of the employee notice and related rules, regulations, and orders of the Secretary of Labor.
- (e) In the event that the Subcontractor does not comply with the requirements set forth in paragraphs (a) through (d) of this clause or otherwise acts in violation of the National Labor Relations Act, NREL shall have the right to terminate this subcontract in whole or in part in accordance with the termination clause of this subcontract, and the Subcontractor may be suspended or debarred by the Department of Energy in accordance with 29 CFR 471.14 and subpart 9.4. Such other sanctions or remedies may be imposed as are provided by 29 CFR part 471, which implements Executive Order 13496 or as otherwise provided by law.

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- (f) Lower-tier subcontracts.
- (1) The Subcontractor shall include the substance of this clause, including this paragraph (f), in every lower-tier subcontract that exceeds \$10,000 and will be performed wholly or partially in the United States, unless exempted by the rules, regulations, or orders of the Secretary of Labor issued pursuant to section 3 of Executive Order 13496 of January 30, 2009, so that such provisions will be binding upon each lower-tier subcontractor.
 - (2) The Subcontractor shall not procure supplies or services in a way designed to avoid the applicability of Executive Order 13496 or this clause.
 - (3) The Subcontractor shall take such action with respect to any such lower-tier subcontract as may be directed by the Secretary of Labor as a means of enforcing such provisions, including the imposition of sanctions for noncompliance.
 - (4) However, if the Subcontractor becomes involved in litigation with a lower-tier subcontractor, or is threatened with such involvement, as a result of such direction, the Subcontractor may request the United States, through the Secretary of Labor, to enter into such litigation to protect the interests of the United States.

CLAUSE 24. COMBATING TRAFFICKING IN PERSONS (FEB 2009)

Derived from FAR 52.222-50 (FD)

(Applies to all subcontracts.)

- (a) Definitions. As used in this clause—
- (1) "Coercion" means—
 - (i) Threats of serious harm to or physical restraint against any person;
 - (ii) Any scheme, plan, or pattern intended to cause a person to believe that failure to perform an act would result in serious harm to or physical restraint against any person; or
 - (iii) The abuse or threatened abuse of the legal process.
 - (2) "Commercial sex act" means any sex act on account of which anything of value is given to or received by any person.
 - (3) "Debt bondage" means the status or condition of a debtor arising from a pledge by the debtor of his or her personal services or of those of a person under his or her control as a security for debt, if the value of those services as reasonably assessed is not applied toward the liquidation of the debt or the length and nature of those services are not respectively limited and defined.
 - (4) "Employee" means an employee of the Subcontractor directly engaged in the performance of work under the subcontract who has other than a minimal impact or involvement in subcontract performance.
 - (5) "Forced Labor" means knowingly providing or obtaining the labor or services of a person—
 - (i) By threats of serious harm to, or physical restraint against, that person or another person;
 - (ii) By means of any scheme, plan, or pattern intended to cause the person to believe that, if the person did not perform such labor or services, that person or another person would suffer serious harm or physical restraint; or
 - (6) By means of the abuse or threatened abuse of law or the legal process.
 - (i) "Involuntary servitude" includes a condition of servitude induced by means of—

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- (A) Any scheme, plan, or pattern intended to cause a person to believe that, if the person did not enter into or continue in such conditions, that person or another person would suffer serious harm or physical restraint; or
 - (B) The abuse or threatened abuse of the legal process.
- (7) "Severe forms of trafficking in persons" means—
 - (i) Sex trafficking in which a commercial sex act is induced by force, fraud, or coercion, or in which the person induced to perform such act has not attained 18 years of age; or
 - (ii) The recruitment, harboring, transportation, provision, or obtaining of a person for labor or services, through the use of force, fraud, or coercion for the purpose of subjection to involuntary servitude, peonage, debt bondage, or slavery.
- (8) "Sex trafficking" means the recruitment, harboring, transportation, provision, or obtaining of a person for the purpose of a commercial sex act.
- (b) Policy. The United States Government has adopted a zero tolerance policy regarding trafficking in persons. Subcontractors and Subcontractor employees shall not—
 - (1) Engage in severe forms of trafficking in persons during the period of performance of the subcontract;
 - (2) Procure commercial sex acts during the period of performance of the subcontract; or
 - (3) Use forced labor in the performance of the subcontract.
- (c) Subcontractor requirements. The Subcontractor shall—
 - (1) Notify its employees of—
 - (i) The United States Government's zero tolerance policy described in paragraph (b) of this clause; and
 - (ii) The actions that will be taken against employees for violations of this policy. Such actions may include, but are not limited to, removal from the subcontract, reduction in benefits, or termination of employment; and
 - (2) Take appropriate action, up to and including termination, against employees or lower-tier Subcontractors that violate the policy in paragraph (b) of this clause.
- (d) Notification. The Subcontractor shall inform the NREL Subcontract Administrator immediately of—
 - (1) Any information it receives from any source (including host country law enforcement) that alleges a Subcontractor employee, lower-tier Subcontractor, or lower-tier Subcontractor employee has engaged in conduct that violates this policy; and
 - (2) Any actions taken against Subcontractor employees, lower-tier Subcontractors, or lower-tier Subcontractor employees pursuant to this clause.
- (e) Remedies. In addition to other remedies available to the Government, the Subcontractor's failure to comply with the requirements of paragraphs (c), (d), or (f) of this clause may result in—
 - (1) Requiring the Subcontractor to remove a Subcontractor employee or employees from the performance of the subcontract;
 - (2) Requiring the Subcontractor to terminate a subcontract;
 - (3) Suspension of subcontract payments;
 - (4) Loss of award fee, consistent with the award fee plan, for the performance period in which the Government determined Subcontractor non-compliance;

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- (5) Termination of the subcontract for default or cause, in accordance with the termination clause of this subcontract; or
- (6) Suspension or debarment.
- (f) Lower-tier Subcontracts. The Subcontractor shall include the substance of this clause, including this paragraph (f), in all lower-tier subcontracts.
- (g) Mitigating Factor. The NREL Subcontract Administrator may consider whether the Subcontractor had a Trafficking in Persons awareness program at the time of the violation as a mitigating factor when determining remedies. Additional information about Trafficking in Persons and examples of awareness programs can be found at the website for the Department of State's Office to Monitor and Combat Trafficking in Persons at <http://www.state.gov/g/tip>.

CLAUSE 25. EMPLOYMENT ELIGIBILITY VERIFICATION (SPECIAL) (JUL 2014)

Derived from FAR 52.222-54 (Aug 2013) (FD)

(Applies to all subcontracts that exceed \$150,000.)

- (a) Definitions. Used in this clause—
 - (1) "Commercially available off-the-shelf (COTS) item"—
 - (i) Means any item of supply that is—
 - (A) A commercial item (as defined in paragraph (1) of the definition at 2.101);
 - (B) Sold in substantial quantities in the commercial marketplace; and
 - (C) Offered to NREL/Government, without modification, in the same form in which it is sold in the commercial marketplace; and
 - (ii) Does not include bulk cargo, as defined 46 U.S.C. 40102(4), such as agricultural products and petroleum products. Per 46 CFR 525.1 (c)(2), "bulk cargo" means cargo that is loaded and carried in bulk onboard ship without mark or count, in a loose unpackaged form, having homogenous characteristics. Bulk cargo loaded into intermodal equipment, except LASH or Seabee barges, is subject to mark and count and, therefore, ceases to be bulk cargo.
 - (2) "Employee assigned to the subcontract" means an employee who was hired after November 6, 1986 (after November 27, 2009 in the Commonwealth of the Northern Mariana Islands), who is directly performing work, in the United States, under a subcontract that is required to include the clause prescribed in FAR 22.1803. An employee is not considered to be directly performing work under a subcontract if the employee—
 - (i) Normally performs support work, such as indirect or overhead functions; and
 - (ii) Does not perform any substantial duties applicable to the subcontract.
 - (3) "Contractor" or "DOE Prime Contractor" means the entity managing and operating the National Renewable Energy Laboratory under prime contract to the U.S. Department of Energy (DOE). The National Renewable Energy Laboratory (NREL) is a Department of Energy-owned national laboratory, managed and operated by the DOE Prime Contractor.
 - (4) "Lower-tier Subcontractor" means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a Subcontractor or another Lower-tier Subcontractor.

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- (5) "Subcontract" means any subcontract, as defined in 2.101, entered into by a lower-tier Subcontractor to furnish supplies or services for performance of a prime contract or a subcontract. It includes but is not limited to purchase orders, and changes and modifications to purchase orders.
 - (6) "United States", as defined as defined in 8 U.S.C. 1101(a)(38), means the 50 States, the District of Columbia, Puerto Rico, Guam, and the Commonwealth of Northern Mariana Islands, and the U.S. Virgin Islands.
- (b) Enrollment and verification requirements.
- (1) If the Subcontractor is not enrolled as a Federal [Sub]Contractor in E-Verify at time of subcontract award, the Subcontractor shall—
 - (i) Enroll. Enroll as a Federal [Sub]Contractor in the E-Verify program within 30 calendar days of subcontract award;
 - (ii) Verify all new employees. Within 90 calendar days of enrollment in the E-Verify program, begin to use E-Verify to initiate verification of employment eligibility of all new hires of the Subcontractor, who are working in the United States, whether or not assigned to the subcontract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section); and
 - (iii) Verify employees assigned to the subcontract. For each employee assigned to the subcontract, initiate verification within 90 calendar days after date of enrollment or within 30 calendar days of the employee's assignment to the subcontract, whichever date is later (but see paragraph (b)(4) of this section).
 - (2) If the Subcontractor is enrolled as a Federal [Sub]Contractor in E-Verify at time of subcontract award, the Subcontractor shall use E-Verify to initiate verification of employment eligibility of—
 - (i) All new employees.
 - (A) Enrolled 90 calendar days or more. The Subcontractor shall initiate verification of all new hires of the Subcontractor, who are working in the United States, whether or not assigned to the subcontract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section); or
 - (B) Enrolled less than 90 calendar days. Within 90 calendar days after enrollment as a Federal [Sub]Contractor in E-Verify, the Subcontractor shall initiate verification of all new hires of the Subcontractor, who are working in the United States, whether or not assigned to the subcontract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section); or
 - (ii) Employees assigned to the subcontract: For each employee assigned to the subcontract, the Subcontractor shall initiate verification within 90 calendar days after date of subcontract award or within 30 days after assignment to the subcontract, whichever date is later (but see paragraph (b)(4) of this section).
 - (3) If the Subcontractor is an institution of higher education (as defined at 20 U.S.C. 1001(a)); a State or local government or the government of a Federally recognized Indian tribe; or a surety performing under a takeover agreement entered into with a Federal agency or NREL pursuant to a performance bond, the Subcontractor may choose to verify only employees assigned to the subcontract, whether existing employees or new hires. The Subcontractor shall follow the applicable verification requirements at (b)(1) or

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- (b)(2) respectively, except that any requirement for verification of new employees applies only to new employees assigned to the subcontract.
- (4) Option to verify employment eligibility of all employees. The Subcontractor may elect to verify all existing employees hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), rather than just those employees assigned to the subcontract. The Subcontractor shall initiate verification for each existing employee working in the United States who was hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), within 180 calendar days of—
- (i) Enrollment in the E-Verify program; or
 - (ii) Notification to E-Verify Operations of the Subcontractor's decision to exercise this option, using the contact information provided in the E-Verify program Memorandum of Understanding (MOU).
- (5) The Subcontractor shall comply, for the period of performance of this subcontract, with the requirements of the E-Verify program MOU.
- (i) The Department of Homeland Security (DHS) or the Social Security Administration (SSA) may terminate the Subcontractor's MOU and deny access to the E-Verify system in accordance with the terms of the MOU. In such case, the Subcontractor will be referred to a suspension or debarment official.
 - (ii) During the period between termination of the MOU and a decision by the suspension or debarment official whether to suspend or debar, the Subcontractor is excused from its obligations under paragraph (b) of this clause. If the suspension or debarment official determines not to suspend or debar the Subcontractor, then the Subcontractor must reenroll in E-Verify.
- (c) Web site. Information on registration for and use of the E-Verify program can be obtained via the Internet at the Department of Homeland Security Web site: <http://www.dhs.gov/E-Verify>.
- (d) Individuals previously verified. The Subcontractor is not required by this clause to perform additional employment verification using E-Verify for any employee—
- (1) Whose employment eligibility was previously verified by the Subcontractor through the E-Verify program;
 - (2) Who has been granted and holds an active U.S. Government security clearance for access to confidential, secret, or top secret information in accordance with the National Industrial Security Program Operating Manual; or
 - (3) Who has undergone a completed background investigation and been issued credentials pursuant to Homeland Security Presidential Directive (HSPD)-12, Policy for a Common Identification Standard for Federal Employees and [Sub]Contractors.
- (e) Lower-tier Subcontracts. The Subcontractor shall include the requirements of this clause, including this paragraph (e) (appropriately modified for identification of the parties), in each subcontract at any tier that is for—
- (1) (i) commercial or noncommercial services (except for commercial services that are part of the purchase of a COTS item (or an item that would be a COTS item, but for minor modifications), performed by the COTS provider, and are normally provided for that COTS item); or
 - (ii) construction;

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- (2) a value of more than \$3,000; and
- (3) includes work performed in the United States.

CLAUSE 26. RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUN 2008)

Derived from FAR 52.225-13 (FD)

(Applies to all subcontracts.)

- (a) Except as authorized by the Office of Foreign Assets Control (OFAC) in the Department of the Treasury, the Subcontractor shall not acquire, for use in the performance of this subcontract, any supplies or services if any proclamation, Executive order, or statute administered by OFAC, or if OFAC's implementing regulations at 31 CFR Chapter V, would prohibit such a transaction by a person subject to the jurisdiction of the United States.
- (b) Except as authorized by OFAC, most transactions involving Cuba, Iran, and Sudan are prohibited, as are most imports from Burma or North Korea, into the United States or its outlying areas. Lists of entities and individuals subject to economic sanctions are included in OFAC's List of Specially Designated Nationals and Blocked Persons at <http://www.treas.gov/offices/enforcement/ofac/sdn>. More information about these restrictions, as well as updates, is available in the OFAC's regulations at 31 CFR Chapter V and/or on OFAC's website at <http://www.treas.gov/offices/enforcement/ofac>.
- (c) The Subcontractor shall insert this clause, including this paragraph (c), in all lower-tier subcontracts.

CLAUSE 27. FEDERAL, STATE, AND LOCAL TAXES (APR 2003)

Derived from FAR 52.229-3

(Applies to fixed price subcontracts exceeding \$100,000.)

- (a) Definitions, as used in this clause—
 - (1) "After-imposed Federal tax" means any new or increased Federal excise tax or duty, or tax that was exempted or excluded on the subcontract date but whose exemption was later revoked or reduced during the subcontract period, on the transactions or property covered by this subcontract that the Subcontractor is required to pay or bear as the result of legislative, judicial, or administrative action taking effect after the subcontract date. It does not include social security tax or other employment taxes.
 - (2) "After-relieved Federal tax" means any amount of Federal excise tax or duty, except social security or other employment taxes, that would otherwise have been payable on the transactions or property covered by this subcontract, but which the Subcontractor is not required to pay or bear, or for which the Subcontractor obtains a refund or drawback, as the result of legislative, judicial, or administrative action taking effect after the subcontract date.
 - (3) "All applicable Federal, State, and local taxes and duties" means all taxes and duties, in effect on the subcontract date, that the taxing authority is imposing and collecting on the transactions or property covered by this subcontract.
 - (4) "Subcontract date" means the date set for bid opening or, if this is a negotiated subcontract or a modification, the effective date of this subcontract or modification.

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- (5) "Local taxes" includes taxes imposed by a possession or territory of the United States, Puerto Rico, or the Northern Mariana Islands, if the subcontract is performed wholly or partly in any of those areas.
- (b) The subcontract price includes all applicable Federal, State, and local taxes and duties.
- (c) The subcontract price shall be increased by the amount of any after-imposed Federal tax, provided the Subcontractor warrants in writing that no amount for such newly imposed Federal excise tax or duty or rate increase was included in the subcontract price, as a contingency reserve or otherwise.
- (d) The subcontract price shall be decreased by the amount of any after-relieved Federal tax.
- (e) The subcontract price shall be decreased by the amount of any Federal excise tax or duty, except social security or other employment taxes, that the Subcontractor is required to pay or bear, or does not obtain a refund of, through the Subcontractor's fault, negligence, or failure to follow instructions of the NREL Subcontract Administrator.
- (f) No adjustment shall be made in the subcontract price under this clause unless the amount of the adjustment exceeds \$250.
- (g) The Subcontractor shall promptly notify the NREL Subcontract Administrator of all matters relating to any Federal excise tax or duty that reasonably may be expected to result in either an increase or decrease in the subcontract price and shall take appropriate action as the NREL Subcontract Administrator directs.
- (h) The Government through NREL shall, without liability, furnish evidence appropriate to establish exemption from any Federal, State, or local tax when the Subcontractor requests such evidence and a reasonable basis exists to sustain the exemption.

CLAUSE 28. TAXES—FOREIGN FIXED PRICE SUBCONTRACTS (JUN 2003)

Derived from FAR 52.229-6

(Applies to fixed price subcontracts exceeding \$100,000 performed wholly or partly in a foreign country.)

- (a) To the extent that this subcontract provides for furnishing supplies or performing services outside the United States and its outlying areas, this clause applies in lieu of any Federal, State, and local taxes clause of the subcontract.
- (b) Definitions, as used in this clause—
 - (1) "Subcontract date" means the date set for bid opening or, if this is a negotiated subcontract or a modification, the effective date of this subcontract or modification.
 - (2) "Tax and "taxes" include fees and charges for doing business that are levied by the government of the country concerned or by its political subdivisions.
 - (3) "All applicable taxes and duties" means all taxes and duties, in effect on the subcontract date, that the taxing authority is imposing and collecting on the transactions or property covered by this subcontract, pursuant to written ruling or regulation in effect on the subcontract date.
 - (4) "After-imposed tax" means any new or increased tax or duty, or tax that was exempted or excluded on the subcontract date but whose exemption was later revoked or reduced during the subcontract period, other than excepted tax, on the transactions or property covered by this subcontract that the Subcontractor is required to pay or bear as the result of legislative, judicial, or administrative action taking effect after the subcontract date.

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- (5) "After-relieved tax" means any amount of tax or duty, other than an excepted tax, that would otherwise have been payable on the transactions or property covered by this subcontract, but which the Subcontractor is not required to pay or bear, or for which the Subcontractor obtains a refund, as the result of legislative, judicial, or administrative action taking effect after the subcontract date.
- (6) Excepted tax" means social security or other employment taxes, net income and franchise taxes, excess profits taxes, capital stock taxes, transportation taxes, unemployment compensation taxes, and property taxes. "Excepted tax" does not include gross income taxes levied on or measured by sales or receipts from sales, property taxes assessed on completed supplies covered by this subcontract, or any tax assessed on the Subcontractor's possession of, interest in, or use of property, title to which is in the U.S. Government
- (c) Unless otherwise provided in this subcontract, the subcontract price includes all applicable taxes and duties, except taxes and duties that the Government of the United States and the government of the country concerned have agreed shall not be applicable to expenditures in such country by or on behalf of the United States.
- (d) The subcontract price shall be increased by the amount of any after-imposed tax or of any tax or duty specifically excluded from the subcontract price by a provision of this subcontract that the Subcontractor is required to pay or bear, including any interest or penalty, if the Subcontractor states in writing that the subcontract price does not include any contingency for such tax and if liability for such tax, interest, or penalty was not incurred through the Subcontractor's fault, negligence, or failure to follow instructions of the NREL Subcontract Administrator or to comply with the provisions of paragraph (l) of this clause.
- (e) The subcontract price shall be decreased by the amount of any after-relieved tax, including any interest or penalty. The Government of the United States/NREL shall be entitled to interest received by the Subcontractor incident to a refund of taxes to the extent that such interest was earned after the Subcontractor was paid by NREL for such taxes. The Government of the United States/NREL shall be entitled to repayment of any penalty refunded to the Subcontractor to the extent that the penalty was paid by NREL.
- (f) The subcontract price shall be decreased by the amount of any tax or duty, other than an excepted tax, that was included in the subcontract and that the Subcontractor is required to pay or bear, or does not obtain a refund of, through the Subcontractor's fault, negligence, or failure to follow instructions of the NREL Subcontract Administrator or to comply with the provisions of paragraph (l) of this clause.
- (g) No adjustment shall be made in the subcontract price under this clause unless the amount of the adjustment exceeds \$250.
- (h) If the Subcontractor obtains a reduction in tax liability under the United States Internal Revenue Code (Title 26, U.S. Code) because of the payment of any tax or duty that either was included in the subcontract price or was the basis of an increase in the subcontract price, the amount of the reduction shall be paid or credited to the Government of the United States/NREL as the NREL Subcontract Administrator directs.
- (i) The Subcontractor shall take all reasonable action to obtain exemption from or refund of any taxes or duties, including interest or penalty, from which the United States Government, NREL, the Subcontractor, any lower-tier Subcontractor, or the transactions or property covered by this subcontract are exempt under the laws of the country concerned or its political subdivisions or which the governments of the

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United States and of the country concerned have agreed shall not be applicable to expenditures in such country by or on behalf of the United States.

- (j) The Subcontractor shall promptly notify the NREL Subcontract Administrator of all matters relating to taxes or duties that reasonably may be expected to result in either an increase or decrease in the subcontract price and shall take appropriate action as the NREL Subcontract Administrator directs. The subcontract price shall be equitably adjusted to cover the costs of action taken by the Subcontractor at the direction of the NREL Subcontract Administrator, including any interest, penalty, and reasonable attorneys' fees.

CLAUSE 29. LIMITATION OF COST (APR 1984)

Derived from FAR 52.232-20

(Applies to fully funded cost type subcontracts.)

- (a) The parties estimate that performance of this subcontract, exclusive of any fee, will not cost NREL more than—
 - (1) The estimated cost specified in the subcontract schedule or,
 - (2) If this is a cost sharing subcontract, NREL's share of the estimated cost specified in the subcontract schedule.

The Subcontractor agrees to use its best efforts to perform the work specified in the subcontract schedule and all obligations under this subcontract within the estimated cost, which, if this is a cost sharing subcontract, includes both NREL's and the Subcontractor's share of the cost.
- (b) The Subcontractor shall notify the NREL Subcontract Administrator in writing whenever it has reason to believe that—
 - (1) The costs the Subcontractor expects to incur under this subcontract in the next sixty (60) days, when added to all costs previously incurred, will exceed seventy-five (75) percent of the estimated cost specified in the subcontract schedule; or
 - (2) The total cost for the performance of this subcontract, exclusive of any fee, will be either greater or substantially less than had been previously estimated.
- (c) As part of the notification, the Subcontractor shall provide the NREL Subcontract Administrator a revised estimate of the total cost of performing this subcontract.
- (d) Except as required by other provisions of this subcontract, specifically citing and stated to be an exception to this clause—
 - (1) NREL is not obligated to reimburse the Subcontractor for cost incurred in excess of—
 - (i) The estimated cost specified in the subcontract schedule; or,
 - (ii) If this is a cost sharing subcontract, the estimated cost to NREL specified in the subcontract schedule; and
 - (2) The Subcontractor is not obligated to continue performance under this subcontract (including actions under the Termination clause of this subcontract) or otherwise incur costs in excess of the estimated cost specified in the subcontract schedule, until the NREL Subcontract Administrator—
 - (i) Notifies the Subcontractor in writing that the estimated cost has been increased and
 - (ii) Provides a revised estimated total cost of performing this subcontract. If this is a cost sharing subcontract, the increase shall be allocated in accordance with the formula specified in the subcontract schedule.

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- (e) No notice, communication, or representation in any form other than that specified in subparagraph (d)(2) above, or from any person other than the NREL Subcontract Administrator, shall affect this subcontract's estimated cost to NREL. In the absence of the specified notice, NREL is not obligated to reimburse the Subcontractor for any costs in excess of the estimated cost or, if this is a cost sharing subcontract, for any costs in excess of the estimated cost to NREL specified in the subcontract schedule, whether those excess costs were incurred during the course of the subcontract or as a result of termination.
- (f) If the estimated cost specified in the subcontract schedule is increased, any costs the Subcontractor incurs before the increase that are in excess of the previously estimated cost shall be allowable to the same extent as if incurred afterward, unless the NREL Subcontract Administrator issues a termination or other notice directing that the increase is solely to cover termination or other specified expenses.
- (g) Change orders shall not be considered an authorization to exceed the estimated cost to NREL specified in the subcontract schedule, unless they contain a statement increasing the estimated cost.
- (h) If this subcontract is terminated or the estimated cost is not increased, NREL and the Subcontractor shall negotiate an equitable distribution of all property produced or purchased under the subcontract, based upon the share of costs incurred by each.

CLAUSE 30. LIMITATION OF FUNDS (APR 1984)

Derived from FAR 52.232-22

(Applies to incrementally funded cost type subcontracts.)

- (a) The parties estimate that performance of this subcontract will not cost NREL more than—
 - (1) The estimated cost specified in the subcontract schedule; or,
 - (2) If this is a cost sharing subcontract, NREL's share of the estimated cost specified in the subcontract schedule.The Subcontractor agrees to use its best efforts to perform the work specified in the subcontract schedule and all obligations under this subcontract within the estimated cost, which, if this is a cost sharing subcontract, includes both NREL's and the Subcontractor's share of the cost.
- (b) The subcontract schedule specifies the amount presently available for payment by NREL and allotted to this subcontract, the items covered, NREL's share of the cost if this is a cost sharing subcontract, and the period of performance it is estimated the allotted amount will cover. The parties contemplate that NREL will allot additional funds incrementally to the subcontract up to the full estimated cost to NREL specified in the subcontract schedule, exclusive of any fee. The Subcontractor agrees to perform, or have performed, work on the subcontract up to the point at which the total amount paid and payable by NREL under the subcontract approximates but does not exceed the total amount actually allotted by NREL to the subcontract.
- (c) The Subcontractor shall notify the NREL Subcontract Administrator in writing whenever it has reason to believe that the costs it expects to incur under this subcontract in the next sixty (60) days, when added to all costs previously incurred, will exceed seventy-five (75) percent of—
 - (1) The total amount so far allotted to the subcontract by NREL; or,
 - (2) If this is a cost sharing subcontract, the amount then allotted to the subcontract by NREL plus the Subcontractor's corresponding share.The notice shall state the estimated amount of additional funds required to continue performance for the period specified in the subcontract schedule.

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- (d) Sixty (60) days before the end of the period specified in the subcontract schedule, the Subcontractor shall notify the NREL Subcontract Administrator in writing of the estimated amount of additional funds, if any, required to continue timely performance under the subcontract or for any further period specified in the subcontract schedule or otherwise agreed upon, and when the funds will be required.
- (e) If, after notification, additional funds are not allotted by the end of the period specified in the subcontract schedule or another agreed upon date, upon the Subcontractor's written request the NREL Subcontract Administrator will terminate this subcontract on that date in accordance with the provisions of the Termination clause of this subcontract. If the Subcontractor estimates that the funds available will allow it to continue to discharge its obligations beyond that date, it may specify a later date in its request, and the NREL Subcontract Administrator may terminate this subcontract on that later date.
- (f) Except as required by other provisions of this subcontract, specifically citing and stated to be an exception to this clause—
 - (1) NREL is not obligated to reimburse the Subcontractor for costs incurred in excess of the total amount allotted by NREL to this subcontract; and
 - (2) The Subcontractor is not obligated to continue performance under this subcontract (including actions under the Termination clause of this subcontract) or otherwise incur costs in excess of—
 - (i) The amount then allotted to the subcontract by NREL; or
 - (ii) If this is a cost sharing subcontract, the amount then allotted by NREL to the subcontract plus the Subcontractor's corresponding share.Until the NREL Subcontract Administrator notifies the Subcontractor in writing that the amount allotted by NREL has been increased and specifies an increased amount, which shall then constitute the total amount allotted by NREL to this subcontract.
- (g) The estimated cost shall be increased to the extent that—
 - (1) The amount allotted by NREL; or,
 - (2) If this is a cost sharing subcontract, the amount then allotted by NREL to the subcontract plus the Subcontractor's corresponding share.Exceeds the estimated cost specified in the subcontract schedule. If this is a cost sharing subcontract, the increase shall be allocated in accordance with the formula specified in the subcontract schedule.
- (h) No notice, communication, or representation in any form other than that specified in paragraph (f)(2) above, or from any person other than the NREL Subcontract Administrator, shall affect the amount allotted by NREL to this subcontract. In the absence of the specified notice, NREL is not obligated to reimburse the Subcontractor for any costs in excess of the total amount allotted by NREL to this subcontract, whether incurred during the course of the subcontract or as a result of termination.
- (i) When and to the extent that the amount allotted by NREL to the subcontract is increased, any costs the Subcontractor incurs before the increase that are in excess of—
 - (1) The amount previously allotted by NREL; or,
 - (2) If this is a cost sharing subcontract, the amount previously allotted by NREL to the subcontract plus the Subcontractor's corresponding share.Shall be allowable to the same extent as if incurred afterward, unless the NREL Subcontract Administrator issues a termination or other notice and directs that the increase is solely to cover termination or other specified expenses.

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- (j) Change orders shall not be considered an authorization to exceed the amount allotted by NREL specified in the subcontract schedule, unless they contain a statement increasing the amount allotted.
- (k) Nothing in this clause shall affect the right of NREL to terminate this subcontract. If this subcontract is terminated, NREL and the Subcontractor shall negotiate an equitable distribution of all property produced or purchased under the subcontract, based upon the costs incurred by each.
- (l) If NREL does not allot sufficient funds to allow completion of the work, the Subcontractor is entitled to a percentage of the fee specified in the subcontract schedule equaling the percentage of completion of the work contemplated by this subcontract.

CLAUSE 31. ASSIGNMENT OR TRANSFER (OCT 2008)

Derived from 52.232-24 (JAN 1986)

(Applies to all subcontracts.)

- (a) Except as expressly authorized in writing by the NREL Subcontract Administrator, this subcontract or any interest therein or claim under this subcontract shall not be assigned or transferred by the Subcontractor.
- (b) In the event of any authorization of assignment or transfer, the parties shall file written notice together with a true copy of the instrument of the assignment or transfer with the NREL Subcontract Administrator. Such assignment or transfer shall cover all amounts payable under the subcontract not already paid, shall not be made to more than one party, and shall not be subject to further assignment or transfers.
- (c) When directed by DOE, the Prime Contractor, may assign or transfer all its rights and obligations under this subcontract to DOE or its designee.

CLAUSE 32. PAYMENT BY ELECTRONIC FUNDS TRANSFER – SYSTEM FOR AWARD MANAGEMENT (NOV 2016)

Derived from FAR 52.232-33 (JUL 2013)

(Applies to all subcontracts where lower-tier Subcontractor is a small business concern.)

- (a) Method of payment.
 - (1) All payments by NREL under this subcontract shall be made by electronic funds transfer (EFT), except as provided in paragraph (a)(2) of this clause. As used in this clause, the term "EFT" refers to the funds transfer and may also include the payment information transfer.
 - (2) In the event NREL is unable to release one or more payments by EFT, the subcontractor agrees to either—
 - (i) Accept payment by check or some other mutually agreeable method of payment; or
 - (ii) Request NREL to extend the payment due date until such time as NREL can make payment by EFT (but see paragraph (d) of this clause).
- (b) Subcontractor's EFT information. NREL shall make payment to the subcontractor using the EFT information contained in the Representations and Certifications and NREL ACH Banking Information form submitted with the offer. Information provided to NREL in these documents shall be consistent with that entered in the Government's System for Award Management (SAM) database. In the event that the EFT information changes, the subcontractor shall be responsible for providing the

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- updated information in updated Representations and Certifications submitted to the subcontract administrator and to the SAM database.
- (c) Mechanisms for EFT payment. NREL may make payment by EFT through either the Automated Clearing House (ACH) network. Suspension of payment. If the subcontractor's EFT information is incorrect, then NREL need not make payment to the subcontractor under this subcontract until correct EFT information is provided in Representations and Certifications, the NREL ACH Banking Information form and entered into the SAM database; and any invoice request shall be deemed not to be a proper invoice for the purpose of prompt payment under this subcontract. The prompt payment terms of the subcontract regarding notice of an improper invoice and delays in accrual of interest penalties apply.
 - (d) Liability for uncompleted or erroneous transfers.
 - (1) If an uncompleted or erroneous transfer occurs because NREL used the subcontractor's EFT information incorrectly, NREL remains responsible for—
 - (i) Making a correct payment;
 - (ii) Paying any prompt payment penalty due; and
 - (iii) Recovering any erroneously directed funds.
 - (2) If an uncompleted or erroneous transfer occurs because the subcontractor's EFT information was incorrect, and—
 - (i) If the funds are no longer under the control of the NREL Accounts Payable office, NREL is deemed to have made payment and the subcontractor is responsible for recovery of any erroneously directed funds; or
 - (ii) If the funds remain under the control of the NREL Accounts Payable office, NREL shall not make payment, and the provisions of paragraph (d) of this clause shall apply.
 - (e) EFT and prompt payment. A payment shall be deemed to have been made in a timely manner in accordance with the prompt payment terms of this subcontract if, payment is on or before the payment due date, provided the specified payment date is a valid date under the payment terms of the subcontract.
 - (f) No EFT assignment of claims is allowable under this subcontract.
 - (g) Liability for change of EFT information by financial agent. NREL is not liable for errors resulting from changes to EFT information made by the subcontractor's financial agent.
 - (h) Payment information. The NREL Accounts Payable office shall forward to the subcontractor available payment information that is suitable for transmission as of the date of release of the EFT instruction to NREL's payment processing contractor. NREL may request the subcontractor to designate a desired format and method(s) for delivery of payment information from a list of formats and methods the NREL payment office is capable of executing. However, NREL does not guarantee that any particular format or method of delivery is available and retains the latitude to use the format and delivery method most convenient to NREL. If NREL makes payment by check in accordance with paragraph (a) of this clause, NREL shall mail the payment information to the remittance address contained in the subcontractor's Representations and Certifications and the subcontract.

CLAUSE 33. PROVIDING ACCELERATED PAYMENTS TO SMALL BUSINESS LOWER-TIER SUBCONTRACTORS (DEC 2013)

Derived from FAR 52.232-40 (FD)

(Applies to all subcontracts where lower-tier Subcontractor is a small business concern.)

- (a) Upon receipt of accelerated payments from the NREL/Government, the Contractor shall make accelerated payments to its small business Subcontractors under this subcontract, to the maximum extent practicable and prior to when such payment is otherwise required under the applicable subcontract or lower-tier subcontract, after receipt of a proper invoice and all other required documentation from the small business Subcontractor.
- (b) The acceleration of payments under this clause does not provide any new rights under the Prompt Payment Act.
- (c) Include the substance of this clause, including this paragraph (c), in all lower-tier subcontracts with small business concerns, including lower-tier subcontracts with small business concerns for the acquisition of commercial items.

CLAUSE 34. BANKRUPTCY (JUL 1995)

Derived from FAR 52.242-13

(Applies to all subcontracts.)

In the event the Subcontractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the Subcontractor agrees to furnish, by certified mail or electronic commerce method authorized by the subcontract, written notification of the bankruptcy to the NREL Subcontract Administrator responsible for administering the subcontract. This notification shall be furnished within five (5) days of the initiation of the proceedings relating to bankruptcy filing. This notification shall include the date on which the bankruptcy petition was filed, the identity of the court in which the bankruptcy petition was filed, and a listing of other NREL subcontract numbers and Government contract numbers and contracting offices for all NREL/Government subcontracts and contracts against which final payment has not been made. This obligation remains in effect until final payment under this subcontract.

CLAUSE 35. STOP WORK ORDER (AUG 1989) AND ALTERNATE I - COST REIMBURSEMENT (APR 1984)

Derived from FAR 52.242-15

(Applies to all subcontracts.)

(Alternate I applies to cost type subcontracts.)

- (a) The NREL Subcontract Administrator may, at any time, by written order to the Subcontractor, require the Subcontractor to stop all or any part of the work called for by this subcontract for a period of up to ninety (90) days, as determined appropriate by the NREL Subcontract Administrator, after the order is delivered to the Subcontractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Subcontractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of up to ninety (90) days, as determined appropriate by the NREL Subcontract Administrator, after a stop-work is delivered to the Subcontractor, or within any extension of that period to which the parties shall have agreed, the NREL Subcontract Administrator shall either—
 - (1) Cancel the stop-work order; or

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- (2) Terminate the work covered by the order as provided in the Default or the Termination clause of this subcontract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Subcontractor shall resume work. The NREL Subcontract Administrator shall make an equitable adjustment and the subcontract shall be modified, in writing, accordingly, if—
 - (1) The stop-work order results in an increase in the time required for, or in the Subcontractor's cost properly allocable to, the performance of any part of this subcontract; and
 - (2) The Subcontractor asserts its right to the adjustment within thirty (30) days after the end of the period of work stoppage provided that, if the NREL Subcontract Administrator decides the facts justify the action, the NREL Subcontract Administrator may receive and act upon the claim submitted at any time before final payment under this subcontract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of NREL/Government, the NREL Subcontract Administrator shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the NREL Subcontract Administrator shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

ALTERNATE I (APR 1984)

If this clause is inserted in a cost reimbursement subcontract, substitute in paragraph (a) (2) the words, "the Termination clause of this subcontract" for the words "the Default, or the Termination for Convenience of NREL/Government clause of this subcontract." In paragraph (b) substitute the words "an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of the subcontract that may be affected" for the words, "an equitable adjustment in the delivery subcontract schedule or subcontract price, or both."

CLAUSE 36. CHANGES - FIXED PRICE (AUG 1987) AND ALTERNATES I THROUGH V (APR 1984)

Derived from FAR 52.243-1

(Applies to fixed price subcontracts.)

(Alternate I applies to subcontracts for services where no supplies are to be furnished--other than architect-engineer or other professional services subcontracts.)

(Alternate II applies to subcontracts for services where supplies are to be furnished--other than architect-engineer services, transportation, or research and development.)

(Alternate III applies to subcontracts for architect-engineer or other professional services.)

(Alternate IV applies to subcontracts for transportation services.)

(Alternate V applies to fixed price research and development subcontracts.)

- (a) The NREL Subcontract Administrator may at any time, by written order, and without notice to the sureties, if any, make changes within the general scope of this subcontract in any one or more of the following:
 - (1) Drawings, designs, or specifications when the supplies to be furnished are to be specially manufactured for NREL/Government, in accordance with the drawings, designs, or specifications.
 - (2) Method of shipment or packing or supplies.
 - (3) Place of delivery.

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- (b) If any such change causes an increase or decrease in the cost of, or the time required for, performance of any part of the work under this subcontract, whether or not changed by the order, the NREL Subcontract Administrator shall make an equitable adjustment in the subcontract price, the delivery schedule, or both, and shall modify the subcontract.
- (c) The Subcontractor must assert its right to an adjustment under this clause within thirty (30) days from the date of receipt of the written order. However, if the NREL Subcontract Administrator decides that the facts justify it, the NREL Subcontract Administrator may receive and act upon a proposal submitted before final payment of the subcontract.
- (d) If the Subcontractor's proposal includes the cost of property made obsolete or excess by the change, the NREL Subcontract Administrator shall have the right to prescribe the manner of the disposition of the property.
- (e) Failure to agree to any adjustment shall be a dispute under the Disputes clause. However, nothing in this clause shall excuse the Subcontractor from proceeding with the subcontract as changed.

ALTERNATE I (APR 1984)

If the requirement is for services, other than architect-engineer or other professional services, and no supplies are to be furnished, substitute the following paragraph (a) in the basic clause:

- (a) The NREL Subcontract Administrator may at any time, by written order, and without notice to the sureties, if any, make changes within the general scope of this subcontract in any one or more of the following:
 - (1) Description of services to be performed.
 - (2) Time of performance (i.e., hours of the day, days of the week, etc.).
 - (3) Place of performance of the services.

ALTERNATE II (APR 1984)

If the requirement is for services (other than architect-engineer services, transportation, or research and development) and supplies are to be furnished, substitute the following paragraph (a) in the basic clause:

- (a) The NREL Subcontract Administrator may at any time, by written order, and without notice to the sureties, if any, make changes within the general scope of this subcontract in any one or more of the following:
 - (1) Description of services to be performed.
 - (2) Time of performance (i.e., hours of the day, days of the week, etc.).
 - (3) Place of performance of the services.
 - (4) Drawings, designs, or specifications when the supplies to be furnished are to be specially manufactured for NREL/Government, in accordance with the drawings, designs, or specifications.
 - (5) Method of shipment or packing of supplies.
 - (6) Place of delivery.

ALTERNATE III (APR 1984)

If the requirement is for architect-engineer or other professional services, substitute the following paragraph (a) in the basic clause and add the following paragraph (f):

- (a) The NREL Subcontract Administrator may at any time, by written order, and without notice to the sureties, if any, make changes within the general scope of this subcontract in the services to be performed.

- (b) No services for which an additional cost or fee will be charged by the Subcontractor shall be furnished without the prior written authorization of the NREL Subcontract Administrator.

ALTERNATE IV (APR 1984)

If the requirement is for transportation services, substitute the following paragraph (a) in the basic clause.

- (a) The NREL Subcontract Administrator may at any time, by written order, and without notice to the sureties, if any, make changes within the general scope of this subcontract in any one or more of the following:
 - (1) Specifications.
 - (2) Work or services.
 - (3) Place of origin.
 - (4) Place of delivery.
 - (5) Tonnage to be shipped.
 - (6) Amount of Government furnished property.

ALTERNATE V (APR 1984)

If the requirement is for fixed price research and development, substitute the following subparagraphs (a) (1) and (a) (3) and paragraph (b) in the basic clause.

- (a) ****
 - (1) Drawings, designs, or specifications.

 - (2) Place of inspection, delivery, or acceptance.
- (b) If any such change causes an increase or decrease in the cost of, or time required for, performing this subcontract, whether or not changed by the order, the NREL Subcontract Administrator shall make an equitable adjustment in—
 - (1) The subcontract price, the time of performance, or both; and
 - (2) Other affected terms of the subcontract, and shall modify the subcontract accordingly.

CLAUSE 37. LOWER-TIER SUBCONTRACTS (OCT 2011) INCORPORATING ALTERNATE I (JUN 2007)

Derived from FAR 52.244-2 (OCT 2010)

(Applies to all cost type subcontracts. Applies to letter, fixed price, time and material, and labor hour subcontracts exceeding \$150,000.)

- (a) Definitions.
 - (1) "Approved purchasing system," as used in this clause, means a Subcontractor's purchasing system that has been reviewed and approved in accordance with Part 44 of the Federal Acquisition Regulation (FAR).
 - (2) "Consent to lower-tier subcontract," as used in this clause, means the NREL Subcontract Administrator's written consent for the Subcontractor to enter into a particular lower-tier subcontract.
 - (3) "Lower-tier subcontract," as used in this clause, means any contract, as defined in FAR Subpart 2.1, entered into by a lower-tier Subcontractor to furnish supplies or services for performance of the subcontract or a lower-tier subcontract. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.
- (b) When this clause is included in a fixed price type subcontract, consent to lower-tier subcontracts is required only on unpriced subcontract actions (including unpriced modifications or unpriced delivery orders), and only if required in accordance with paragraph (c) or (d) of this clause.
- (c) If the Subcontractor does not have an approved purchasing system, consent to lower-tier subcontract is required for any lower-tier subcontract that—
 - (1) Is of the cost reimbursement, time and materials, or labor hour type; or

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- (2) Is fixed price and exceeds the simplified acquisition threshold or five (5) percent of the total estimated cost of the subcontract.
- (d) If the Subcontractor has an approved purchasing system, the Subcontractor nevertheless shall obtain the NREL Subcontract Administrator's written consent before placing any of the lower-tier subcontracts identified in the subcontract schedule.
- (e) (1) The Subcontractor shall notify the NREL Subcontract Administrator reasonably in advance of placing any lower-tier subcontract or modification thereof for which consent is required under paragraph (b), (c), or (d) of this clause, including the following information:
 - (i) A description of the supplies or services to be lower-tier subcontracted.
 - (ii) Identification of the type of lower-tier subcontract to be used.
 - (iii) Identification of the proposed lower-tier Subcontractor.
 - (iv) The proposed lower-tier subcontract price.
 - (v) The lower-tier Subcontractor's current, complete, and accurate cost or pricing data and Certificate of Current Cost or Pricing Data, if required by other subcontract provisions.
 - (vi) The lower-tier Subcontractor's Disclosure Statement or Certificate relating to Cost Accounting Standards when such data are required by other provisions of this subcontract.
 - (vii) A negotiation memorandum reflecting—
 - (A) The principal elements of the lower-tier subcontract price negotiations;
 - (B) The most significant considerations controlling establishment of initial or revised prices;
 - (C) The reason cost or pricing data were or were not required;
 - (D) The extent, if any, to which the Subcontractor did not rely on the lower-tier Subcontractor's cost or pricing data in determining the price objective and in negotiating the final price;
 - (E) The extent to which it was recognized in the negotiation that the lower-tier Subcontractor's cost or pricing data were not accurate, complete, or current; the action taken by the Subcontractor and the lower-tier Subcontractor; and the effect of any such defective data on the total price negotiated;
 - (F) The reasons for any significant difference between the Subcontractor's price objective and the price negotiated; and
 - (G) A complete explanation of the incentive fee or profit plan when incentives are used. The explanation shall identify each critical performance element, management decisions used to quantify each incentive element, reasons for the incentives, and a summary of all trade-off possibilities considered.
- (2) If the Subcontractor has an approved purchasing system and consent is not required under paragraph (c) or (d) of this clause, the Subcontractor nevertheless shall notify the NREL Subcontract Administrator reasonably in advance of entering into any:
 - (i) cost plus-fixed-fee subcontract, or
 - (ii) fixed price subcontract that exceeds either the simplified acquisition threshold or 5 percent of the total estimated cost of this contract. The

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- notification shall include the information required by paragraphs (e)(1)(i) through (e)(1)(iv) of this clause.
- (f) Unless the consent or approval specifically provides otherwise, neither consent by the NREL Subcontract Administrator to any lower-tier subcontract nor approval of the Subcontractor's purchasing system shall constitute a determination—
 - (1) Of the acceptability of any lower-tier subcontract terms or conditions;
 - (2) Of the allowability of any cost under this subcontract; or
 - (3) To relieve the Subcontractor of any responsibility for performing this subcontract.
 - (g) No lower-tier subcontract or modification thereof placed under this subcontract shall provide for payment on a cost plus a percentage of cost basis, and any fee payable under cost reimbursement type lower-tier subcontracts shall not exceed the fee limitations in FAR 15.404-4(c)(4)(i).
 - (h) The Subcontractor shall give the NREL Subcontract Administrator immediate written notice of any action or suit filed and prompt notice of any claim made against the Subcontractor by any lower-tier Subcontractor or vendor that, in the opinion of the Subcontractor, may result in litigation related in any way to this subcontract, with respect to which the Subcontractor may be entitled to reimbursement from NREL/Government.
 - (i) NREL/Government reserves the right to review the Subcontractor's purchasing system as set forth in FAR Subpart 44.3.
 - (j) Paragraphs (d) and (f) of this clause do not apply to any of the lower-tier subcontracts identified in the subcontract schedule that were evaluated during negotiations.

CLAUSE 38. LOWER-TIER SUBCONTRACTS FOR COMMERCIAL ITEMS (NOV 2016)

Derived from FAR 52.244-6 (DEC 2013) (FD)

(Applies to subcontracts for supplies or services other than commercial items.)

- (a) Definitions. As used in this clause—
 - (1) "Commercial item" has the meaning contained in Federal Acquisition Regulation 2.101, Definitions.
 - (2) "Lower-tier Subcontract" includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Subcontractor or lower-tier Subcontractors.
- (b) To the maximum extent practicable, the Subcontractor shall incorporate, and require its lower-tier Subcontractors, commercial items or non-developmental items as components of items to be supplied under this subcontract.
- (c) (1) The Subcontractor shall insert the following clauses in lower-tier subcontracts for commercial items:
 - (i) 52.203-13, Contractor Code of Business Ethics and Conduct (Apr 2010) (Pub. L. 110-252, Title VI, Chapter 1 (41.U.S.C. 251 note)), if the subcontract exceeds \$5,000,000 and has a performance period of more than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the NREL Subcontract Administrator.
 - (ii) 52.219-8, Utilization of Small Business Concerns (Oct 2014) (15 U.S.C. 637(d)(2) and (3)), if the lower-tier subcontract offers further subcontracting opportunities. If the lower-tier subcontract (except

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- subcontracts to small business concerns) exceeds \$700,000 (\$1,500,000 for construction of any public facility), the lower-tier Subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (iii) 52.222-26, Equal Opportunity (Mar 2007) (E.O. 11246).
 - (iv) 52.222-35, Equal Opportunity for Veterans (Sept 2010) (38 U.S.C. 4212(a)).
 - (v) 52.222-36, Affirmative Action for Workers with Disabilities (Oct 2010) (29 U.S.C. 793).
 - (vi) 52.222-50, Combating Trafficking in Persons (Feb 2009) (22 U.S.C. 7104(g)).
 - (vii) 52.232-40 Providing Accelerated Payments to Small Business Subcontractors (Dec 2013), if flow down is required in accordance with paragraph (c) of the FAR clause 52.232-40.
 - (viii) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) (46 U.S.C. App. 1241 and 10 U.S.C. 2631), if flow down is required in accordance with paragraph (d) of FAR clause 52.247-64).
- (2) While not required, the Subcontractor may flow down to lower-tier subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.
- (d) The Subcontractor shall include the terms of this clause, including this paragraph (d), in lower-tier subcontracts awarded under this subcontract.

CLAUSE 39. INSPECTION OF SERVICES-FIXED PRICE (AUG 1996)

Derived from FAR 52.246-4

(Applies to fixed price subcontracts for services and fixed price subcontracts for supplies where services are furnished.)

- (a) Definition.
 - (1) "Services," as used in this clause, includes services performed, workmanship, and material furnished or utilized in the performance of services.
- (b) The Subcontractor shall provide and maintain an inspection system acceptable to NREL covering the services under this subcontract. Complete records of all inspection work performed by the Subcontractor shall be maintained and made available to NREL/Government during subcontract performance and for as long afterwards as the subcontract requires.
- (c) NREL/Government has the right to inspect and test all services called for by the subcontract, to the extent practicable at all times and places during the term of the subcontract. NREL/Government shall perform inspections and tests in a manner that will not unduly delay the work.
- (d) If NREL/Government performs inspections or tests on the premises of the Subcontractor or a lower-tier Subcontractor, the Subcontractor shall furnish, and shall require lower-tier Subcontractors to furnish, at no increase in subcontract price, all reasonable facilities and assistance for the safe and convenient performance of these duties.
- (e) If any of the services do not conform to subcontract requirements, NREL may require the Subcontractor to perform the services again in conformity with subcontract requirements, at no increase in subcontract amount. When the defects in services cannot be corrected by reperformance, NREL may—

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- (1) Require the Subcontractor to take necessary action to ensure that future performance conforms to subcontract requirements; and
 - (2) Reduce the subcontract price to reflect the reduced value of the services performed.
- (f) If the Subcontractor fails to promptly perform the service(s) again or to take the necessary action to ensure future performance in conformity with subcontract requirements, NREL may—
- (1) By subcontract or otherwise, perform the services and charge to the Subcontractor any cost incurred by NREL that is directly related to the performance of such service; or
 - (2) Terminate the subcontract for default.

CLAUSE 40. COMMERCIAL BILL OF LADING NOTATIONS (OCT 2009)

Derived from FAR 52.247-1 (FEB 2006) (FD)

(Applies to all subcontracts where transportation is a direct charge to the subcontract.) (Direct and actual transportation cost is a separate item in the invoice (e.g. free on board (F.O.B.) origin) and not included in the delivered price (e.g. F.O.B. destination).

When the NREL Subcontract Administrator authorizes supplies to be shipped on a commercial bill of lading and the Subcontractor will be reimbursed these transportation costs as direct allowable costs, the Subcontractor shall ensure before shipment is made that the commercial shipping documents are annotated with the following notation:

“Transportation is for the U.S. Department of Energy, acting through its National Renewable Energy Laboratory (NREL) and the actual total transportation charges paid to the carrier(s) by the consignor or consignee shall be reimbursed by NREL on behalf of the Government pursuant to cost reimbursement contract No. DE-AC36-08GO28308. This may be confirmed by contacting the DOE, Golden Service Center, 15013 Denver West Parkway, Golden, CO 80401.”

CLAUSE 41. PREFERENCE FOR U.S.-FLAG AIR CARRIERS (JUN 2003)

Derived from FAR 52.247-63 (FD)

(Applies to subcontracts that involve international air transportation.)

- (a) Definitions. As used in this clause—
 - (1) “International air transportation,” means transportation by air between a place in the United States and a place outside the United States or between two places both of which are outside the United States.
 - (2) “United States” means the 50 States, the District of Columbia, and outlying areas.
 - (3) “U.S.-flag air carrier,” means an air carrier holding a certificate under 49 U.S.C. Chapter 411.
- (b) Section 5 of the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. 40118) (Fly America Act) requires that all Federal agencies and Government contractors and Subcontractors use U.S.-flag air carriers for U.S. Government-financed international air transportation of personnel (and their personal effects) or property, to the extent that service by those carriers is available. It requires the Comptroller General of the United States, in the absence of satisfactory proof of the necessity for foreign-flag air transportation, to disallow expenditures from funds, appropriated or otherwise established for the account of the United States, for international air transportation secured aboard a foreign-flag air carrier if a U.S.-flag air carrier is available to provide such services.

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- (c) If available, the Subcontractor, in performing work under this subcontract, shall use U.S.-flag carriers for international air transportation of personnel (and their personal effects) or property.
- (d) In the event that the Subcontractor selects a carrier other than a U.S.-flag air carrier for international air transportation, the Subcontractor shall include a statement on vouchers involving such transportation essentially as follows:
 - Statement of Unavailability of U.S.-Flag Air Carriers
 - International air transportation of persons (and their personal effects) or property by U.S.-flag air carrier was not available or it was necessary to use foreign-flag air carrier service for the following reasons (see section 47.403 of the Federal Acquisition Regulation): [State reasons]

CLAUSE 42. PREFERENCE FOR PRIVATELY OWNED U.S.-FLAG COMMERCIAL VESSELS (FEB 2006)

Derived from FAR 52.247-64 (FD)

(Applies to subcontracts that involve ocean transportation of supplies subject to the Cargo Preference Act of 1954.)

- (a) Except as provided in paragraph (e) of this clause, the Cargo Preference Act of 1954 (46 U.S.C. App. 1241(b)) requires that Federal departments and agencies shall transport in privately owned U.S.-flag commercial vessels at least 50 percent of the gross tonnage of equipment, materials, or commodities that may be transported in ocean vessels (computed separately for dry bulk carriers, dry cargo liners, and tankers). Such transportation shall be accomplished when any equipment, materials, or commodities, located within or outside the United States, that may be transported by ocean vessel are—
 - (1) Acquired for a U.S. Government agency account;
 - (2) Furnished to, or for the account of, any foreign nation without provision for reimbursement;
 - (3) Furnished for the account of a foreign nation in connection with which the United States advances funds or credits, or guarantees the convertibility of foreign currencies; or
 - (4) Acquired with advance of funds, loans, or guaranties made by or on behalf of the United States.
- (b) The Subcontractor shall use privately owned U.S.-flag commercial vessels to ship at least 50 percent of the gross tonnage involved under this subcontract (computed separately for dry bulk carriers, dry cargo liners, and tankers) whenever shipping any equipment, materials, or commodities under the conditions set forth in paragraph (a) of this clause, to the extent that such vessels are available at rates that are fair and reasonable for privately owned U.S.-flag commercial vessels.
- (c)
 - (1) The Subcontractor shall submit one legible copy of a rated on-board ocean bill of lading for each shipment to both—
 - (i) The NREL Subcontract Administrator, and
 - (ii) The Office of Cargo Preference
Maritime Administration (MAR-590)
400 Seventh Street, SW
Washington, DC 20590Lower-tier Subcontractor bills of lading shall be submitted through the Subcontractor.

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- (2) The Subcontractor shall furnish these bill of lading copies
 - (i) Within twenty (20) working days of the date of loading for shipments originating in the United States, or
 - (ii) Within thirty (30) working days for shipments originating outside the United States. Each bill of lading copy shall contain the following information:
 - (A) Sponsoring U.S. Government agency
 - (B) Name of vessel
 - (C) Vessel flag of registry
 - (D) Date of loading
 - (E) Port of loading
 - (F) Port of final discharge
 - (G) Description of commodity
 - (H) Gross weight in pounds and cubic feet if available, and
 - (I) Total ocean freight revenue in U.S. dollars.
- (d) The Subcontractor shall insert the substance of this clause, including this paragraph (d), in all lower-tier subcontracts or purchase orders under this subcontract, except those described in paragraph (e)(4).
- (e) The requirement in paragraph (a) does not apply to—
 - (1) Cargoes carried in vessels as required or authorized by law or treaty;
 - (2) Ocean transportation between foreign countries of supplies purchased with foreign currencies made available, or derived from funds that are made available, under the Foreign Assistance Act of 1961 (22 U.S.C. 2353);
 - (3) Shipments of classified supplies when the classification prohibits the use of non-Government vessels; and
 - (4) Lower-tier subcontracts or purchase orders for the acquisition of commercial items unless—
 - (i) This subcontract is—
 - (A) A subcontract or agreement for ocean transportation services; or
 - (B) A construction subcontract; or
 - (ii) The supplies being transported are—
 - (A) Items the Subcontractor is reselling or distributing to the NREL/Government without adding value generally, the Subcontractor does not add value to the items when it lower-tier subcontracts items for f.o.b. destination shipment); or
 - (B) Shipped in direct support of U.S. military—
 - (1) Contingency operations;
 - (2) Exercises; or
 - (3) Forces deployed in connection with United Nations or North Atlantic Treaty Organization humanitarian or peacekeeping operations.
- (f) Guidance regarding fair and reasonable rates for privately owned U.S.-flag commercial vessels may be obtained from:
 - Office of Costs and Rates
 - Maritime Administration
 - 400 Seventh Street, SW
 - Washington DC 20590
 - Phone: (202) 366-4610

CLAUSE 43. TERMINATION FOR CONVENIENCE OF NREL/GOVERNMENT (FIXED PRICE) (SHORT FORM) (APR 1984)

Derived from FAR 52.249-1 (FD)

(Applies to fixed price subcontracts of \$100,000 or less, except subcontracts for research and development work with educational or nonprofit institutions and subcontracts for architect-engineer services.)

The NREL Subcontract Administrator, by written notice, may terminate this subcontract, in whole or in part, when it is in NREL's/Government's interest. If this subcontract is terminated, the rights, duties, and obligations of the parties, including compensation to the Subcontractor, shall be in accordance with Part 49 of the Federal Acquisition Regulation in effect on the date of this subcontract.

CLAUSE 44. TERMINATION FOR CONVENIENCE OF NREL/GOVERNMENT (FIXED PRICE) AND ALTERNATE I (CONSTRUCTION) (SPECIAL) (OCT 2008)

Derived from FAR 52.249-2 (MAY 2004) and Alternate I (SEP 1996) (FD)

(Applies to fixed price subcontracts exceeding \$100,000, except subcontracts for research and development work with educational or nonprofit institutions and subcontracts for architect-engineer services.)

(Alternate I applies to fixed price construction subcontracts exceeding \$100,000.)

- (a) NREL may terminate performance of work under this subcontract in whole or, from time to time, in part if the NREL Subcontract Administrator determines that a termination is in NREL's/Government's interest. The NREL Subcontract Administrator shall terminate by delivering to the Subcontractor a Notice of Termination specifying the extent of termination and the effective date.
- (b) After receipt of a Notice of Termination, and except as directed by the NREL Subcontract Administrator, the Subcontractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:
 - (1) Stop work as specified in the notice;
 - (2) Place no further subcontracts or orders (referred to as lower-tier subcontracts in this clause) for materials, services, or facilities, except as necessary to complete the continued portion of the subcontract;
 - (3) Terminate all lower-tier subcontracts to the extent they relate to the work terminated;
 - (4) Assign to NREL, as directed by the NREL Subcontract Administrator, all right, title, and interest of the Subcontractor under the lower-tier subcontracts terminated, in which case NREL shall have the right to settle or to pay any termination settlement proposal arising out of those terminations;
 - (5) With approval or ratification to the extent required by the NREL Subcontract Administrator, settle all outstanding liabilities and termination settlement proposals arising from the termination of lower-tier subcontracts; the approval or ratification will be final for purposes of this clause;
 - (6) As directed by the NREL Subcontract Administrator, transfer title to the Government and deliver to NREL—
 - (i) The fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated; and
 - (ii) The completed or partially completed plans, drawings, information, and other property that, if the subcontract had been completed, would be required to be furnished to NREL.

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- (7) Complete performance of the work not terminated;
- (8) Take any action that may be necessary, or that the NREL Subcontract Administrator may direct, for the protection and preservation of the property related to this subcontract that is in the possession of the Subcontractor and in which the Government has or may acquire an interest; and
- (9) Use its best efforts to sell, as directed or authorized by the Government through the NREL Subcontract Administrator, any property of the types referred to in subparagraph (b)(6) of this clause; provided, however, that the Subcontractor—
 - (i) Is not required to extend credit to any purchaser; and
 - (ii) May acquire the property under the conditions prescribed by, and at prices approved by, the Government acting through the NREL Subcontract Administrator. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by NREL under this subcontract, credited to the price or cost of the work, or paid in any other manner directed by the NREL Subcontract Administrator.
- (c) The Subcontractor may submit complete termination inventory subcontract schedules no later than sixty (60) days from the effective date of termination, unless extended in writing by the NREL Subcontract Administrator within this sixty (60)-day period.
- (d) [Reserved.]
- (e) After termination, the Subcontractor shall submit a final termination settlement proposal to the NREL Subcontract Administrator in the form and with the certification prescribed by the NREL Subcontract Administrator. The Subcontractor shall submit the proposal promptly, but no later than one (1) year from the effective date of termination, unless extended in writing by the NREL Subcontract Administrator upon written request of the Subcontractor within this one (1) year period. However, if the NREL Subcontract Administrator determines that the facts justify it, a termination settlement proposal may be received and acted on after one (1) year or any extension. If the Subcontractor fails to submit the proposal within the time allowed, the NREL Subcontract Administrator may determine, on the basis of information available, the amount, if any, due the Subcontractor because of the termination and shall pay the amount determined.
- (f) The Subcontractor and the NREL Subcontract Administrator may agree upon the whole or any part of the amount to be paid because of the termination. The amount may include a reasonable allowance for profit on work done. However, the agreed amount, whether under this paragraph (f) or paragraph (g) of this clause, exclusive of costs shown in subparagraph (g) (3) of this clause, may not exceed the total subcontract price as reduced by—
 - (1) The amount of payments previously made; and
 - (2) The subcontract price of work not terminated.The subcontract shall be amended, and the Subcontractor paid the agreed amount. Paragraph (g) of this clause shall not limit, restrict, or affect the amount that may be agreed upon to be paid under this paragraph.
- (g) If the Subcontractor and the NREL Subcontract Administrator fail to agree on the whole amount to be paid because of the termination of work, the NREL Subcontract Administrator shall pay the Subcontractor the amounts determined by the NREL Subcontract Administrator as follows, but without duplication of any amounts agreed on under paragraph (f) of this clause:

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- (1) The subcontract price for completed supplies or services accepted by NREL (or sold or acquired under subparagraph (b) (9) of this clause) not previously paid for, adjusted for any saving of freight and other charges.
- (2) The total of—
 - (i) The costs incurred in the performance of the work terminated, including initial costs and preparatory expense allocable thereto, but excluding any costs attributable to supplies or services paid or to be paid under subparagraph (g) (1) of this clause;
 - (ii) The cost of settling and paying termination settlement proposals under terminated lower-tier subcontracts that are properly chargeable to the terminated portion of the subcontract if not included in subdivision (g) (2) (i) of this clause; and
 - (iii) A sum, as profit on subdivision (g) (2) (i) of this clause, determined by the NREL Subcontract Administrator under 49.202 of the Federal Acquisition Regulation, in effect on the date of this subcontract, to be fair and reasonable. However, if it appears that the Subcontractor would have sustained a loss on the entire subcontract had it been completed, the NREL Subcontract Administrator shall allow no profit under this subdivision (g) (2) (iii) and shall reduce the settlement to reflect the indicated rate of loss.
- (3) The reasonable costs of settlement of the work terminated, including—
 - (i) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;
 - (ii) The termination and settlement of lower-tier subcontracts (excluding the amounts of such settlements); and
 - (iii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory.
- (h) Except for normal spoilage, and except to the extent that NREL/Government expressly assumed the risk of loss, the NREL Subcontract Administrator shall exclude from the amounts payable to the Subcontractor under paragraph (g) of this clause, the fair value, as determined by the NREL Subcontract Administrator, of property that is destroyed, lost, stolen, or damaged so as to become undeliverable to NREL/Government or to a buyer.
- (i) The cost principles and procedures of Part 31 of the Federal Acquisition Regulation, in effect on the date of this subcontract, shall govern all costs claimed, agreed to, or determined under this clause.
- (j) The Subcontractor shall have the right of appeal, under the Disputes clause, from any determination made by the NREL Subcontract Administrator under paragraph (e), (g), or (i) of this clause, except that if the Subcontractor failed to submit the termination settlement proposal or request for equitable adjustment within the time provided in paragraph (e) or (i), respectively, and failed to request a time extension, there is no right of appeal.
- (k) In arriving at the amount due the Subcontractor under this clause, there shall be deducted—
 - (1) All unliquidated advance or other payments to the Subcontractor under the terminated portion of the subcontract;
 - (2) Any claim which NREL/Government has against the Subcontractor under this clause; and

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- (3) The agreed price for, or the proceeds of sale of, materials, supplies, or other things acquired by the Subcontractor or sold under the provisions of this clause and not recovered by or credited to NREL/Government.
- (l) If the termination is partial, the Subcontractor may file a proposal with the NREL Subcontract Administrator for an equitable adjustment of the price(s) of the continued portion of the subcontract. The NREL Subcontract Administrator shall make any equitable adjustment agreed upon. Any proposal by the Subcontractor for an equitable adjustment under this clause shall be requested within forty-five (45) days from the effective date of termination unless extended in writing by the NREL Subcontract Administrator.
- (m)
 - (1) NREL may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Subcontractor for the terminated portion of the subcontract, if the NREL Subcontract Administrator believes the total of these payments will not exceed the amount to which the Subcontractor will be entitled.
 - (2) If the total payments exceed the amount finally determined to be due, the Subcontractor shall repay the excess to NREL/Government upon demand, together with interest computed at the rate established by the Secretary of the Treasury under 50 U.S.C. App. 1215(b)(2). Interest shall be computed for the period from the date the excess payment is received by the Subcontractor to the date the excess is repaid. Interest shall not be charged on any excess payment due to a reduction in the Subcontractor's termination settlement proposal because of retention or other disposition of termination inventory until ten (10) days after the date of the retention or disposition, or a later date determined by the NREL Subcontract Administrator because of the circumstances.
- (n) Unless otherwise provided in this subcontract or by statute, the Subcontractor shall maintain all records and documents relating to the terminated portion of this subcontract for three (3) years after final settlement. This includes all books and other evidence on the Subcontractor's costs and expenses under this subcontract. The Subcontractor shall make these records and documents available to NREL/Government, at the Subcontractor's office, at all reasonable times, without any direct charge. If approved by the NREL Subcontract Administrator, photographs, microphotographs, or other authentic reproductions may be maintained instead of original records and documents.

ALTERNATE I

If the contract is for construction, substitute the following paragraph (g) for paragraph (g) of the basic clause:

- (a) If the Subcontractor and NREL Subcontract Administrator fail to agree on the whole amount to be paid the Subcontractor because of the termination of work, the NREL Subcontract Administrator shall pay the Subcontractor the amounts determined as follows, but without duplication of any amounts agreed upon under paragraph (f) of this clause:
 - (1) For subcontract work performed before the effective date of termination, the total (without duplication of any items) of—
 - (i) The cost of this work;
 - (ii) The cost of settling and paying termination settlement proposals under terminated lower-tier subcontracts that are properly chargeable to the terminated portion of the subcontract if not included in subdivision (g) (1) (i) of this clause; and

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- (iii) A sum, as profit on subdivision (g) (1) (i) of this clause, determined by the NREL Subcontract Administrator under 49.202 of the Federal Acquisition Regulation, in effect on the date of this subcontract, to be fair and reasonable; however, if it appears that the Subcontractor would have sustained a loss on the entire subcontract had it been completed, the NREL Subcontract Administrator shall allow no profit under this subdivision (g) (1) (iii) and shall reduce the settlement to reflect the indicated rate of loss.
- (2) The reasonable costs of settlement of the work terminated, including—
 - (i) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;
 - (ii) The termination and settlement of lower-tier subcontracts (excluding the amounts of such settlements); and
 - (iii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory.

CLAUSE 45. TERMINATION FOR CONVENIENCE OF NREL/GOVERNMENT (SERVICES) (SHORT FORM) (APR 1984)

Derived from FAR 52.249-4 (FD)

(Applies to fixed-price subcontracts for services.)

The NREL Subcontract Administrator, by written notice, may terminate this subcontract, in whole or in part, when it is in NREL's/Government's best interest. If this subcontract is terminated, NREL shall be liable only for payment under the payment provisions of this subcontract for services rendered before the effective date of termination.

CLAUSE 46. TERMINATION FOR CONVENIENCE OF NREL/GOVERNMENT (EDUCATIONAL AND OTHER NON PROFIT INSTITUTIONS) (SPECIAL) (JUN 2012) MODIFIED BY DEAR 970.4905-1, ALTERNATE I (COST TYPE) (JUN 2012)

Derived from FAR 52.249-5 (SEP 1996) (FD)

(Applies to fixed-price or cost type subcontracts for research and development work with an educational or nonprofit institution on a nonprofit or no-fee basis.)

(Alternate I applies to cost type subcontracts.)

- (a) NREL may terminate performance of work under this subcontract in whole or, from time to time, in part if the NREL Subcontract Administrator determines that a termination is in NREL/Government's interest. The NREL Subcontract Administrator shall terminate by delivering to the Subcontractor a Notice of Termination specifying the extent of termination and the effective date.
- (b) After receipt of a Notice of Termination, and except as directed by the NREL Subcontract Administrator, the Subcontractor shall immediately proceed with the following obligations:
 - (1) Stop work as specified in the notice;
 - (2) Place no further subcontracts or orders (referred to as lower-tier subcontracts in this clause), except as necessary to complete the continued portion of the subcontract;
 - (3) Terminate all applicable lower-tier subcontracts and cancel or divert applicable commitments covering personal services that extend beyond the effective date of termination;

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- (4) Assign to NREL, as directed by the NREL Subcontract Administrator, all rights, titles, and interests of the Subcontractor under the lower-tier subcontracts terminated, in which case NREL shall have the right to settle or pay any termination settlement proposal arising out of those terminations;
 - (5) With approval or ratification to the extent required by the NREL Subcontract Administrator, settle all outstanding liabilities and termination settlement proposals arising from the termination of lower-tier subcontracts; approval or ratification will be final for purposes of this clause;
 - (6) Transfer title (if not already transferred) to the Government and, as directed by the NREL Subcontract Administrator, deliver to NREL any information and items that, if the subcontract had been completed, would have been required to be furnished, including—
 - (i) Materials or equipment produced, in process, or acquired for the work terminated; and
 - (ii) Completed or partially completed plans, drawings, and information.
 - (7) Complete performance of the work not terminated;
 - (8) Take any action that may be necessary, or that the NREL Subcontract Administrator may direct, for the protection and preservation of the property related to this subcontract that is in the possession of the Subcontractor and in which NREL/Government has or may acquire an interest; and
 - (9) Use its best efforts to sell, as directed or authorized by the Government through the NREL Subcontract Administrator, termination inventory other than that retained by NREL/Government under subparagraph (b)(6) of this clause; provided, however, that the Subcontractor—
 - (i) Is not required to extend credit to any purchaser; and
 - (ii) May acquire the property under the conditions prescribed by, and at prices approved by, the NREL Subcontract Administrator. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by NREL under this subcontract, credited to the price or cost of the work, or paid in any other manner directed by the NREL Subcontract Administrator.
- (c) The Subcontractor shall submit complete termination inventory subcontract schedules no later than one hundred twenty (120) days from the effective date of termination, unless extended in writing by the NREL Subcontract Administrator upon written request of the Subcontractor within this one hundred twenty (120)-day period.
- (d) After termination, the Subcontractor shall submit a final termination settlement proposal to the NREL Subcontract Administrator in the form and with the certification prescribed by the NREL Subcontract Administrator. The Subcontractor shall submit the proposal promptly but no later than one (1) year from the effective date of termination unless extended in writing by the NREL Subcontract Administrator upon written request of the Subcontractor within this one (1)-year period. If the Subcontractor fails to submit the termination settlement proposal within the time allowed, the NREL Subcontract Administrator may determine, on the basis of information available, the amount, if any, due the Subcontractor because of the termination and shall pay the amount determined.
- (e) Subject to paragraph (d) of this clause, the Subcontractor and the NREL Subcontract Administrator may agree upon the whole or any part of the amount to be paid because of the termination. This amount may include reasonable cancellation charges incurred by the Subcontractor and any reasonable loss on outstanding commitments for personal services that the Subcontractor is unable to cancel, provided that the Subcontractor exercised reasonable diligence in diverting such

- commitments to other operations. The subcontract shall be amended and the Subcontractor paid the agreed amount.
- (f) The cost principles and procedures in Subpart 31.3 of the Federal Acquisition Regulation (FAR), as supplemented in subpart 970.31 of the Department of Energy (DOE) Acquisition Regulation, in effect on the date of the subcontract, shall govern all costs claimed, agreed to, or determined under this clause; however, if the Subcontractor is not an educational institution, and is a nonprofit organization under Office of Management and Budget (OMB) Circular A-122, "Cost Principles for Nonprofit Organizations," July 8, 1980, those cost principles shall apply; provided, that if the Subcontractor is a nonprofit institution listed in Attachment C of OMB Circular A-122, the cost principles at FAR 31.2 for commercial organizations shall apply to such Subcontractor.
 - (g) NREL may, under the terms and conditions it prescribes, make partial payments against costs incurred by the Subcontractor for the terminated portion of this subcontract, if the NREL Subcontract Administrator believes the total of these payments will not exceed the amount to which the Subcontractor will be entitled.
 - (h) The Subcontractor has the right of appeal as provided under the Disputes clause, except that if the Subcontractor failed to submit the termination settlement proposal within the time provided in paragraph (d) of this clause and failed to request a time extension, there is no right of appeal.

ALTERNATE I (JUN 2012)

If subcontract is for a cost type subcontract, insert the following paragraph (i) of the basic clause:

- (a) The cost principles and procedures in Part 31 of the Federal Acquisition Regulation, as supplemented in subpart 970.31 of the Department of Energy Acquisition Regulation, in effect on the date of this subcontract, shall govern all costs claimed, agreed to, or determined under this clause.

CLAUSE 47. DEFAULT (FIXED PRICE SUPPLY AND SERVICE) (APR 1984)

Derived from FAR 52.249-8

(Applies to fixed price subcontracts for supplies and services.)

- (a) (1) NREL may, subject to paragraphs (c) and (d) of this clause, by written notice of default to the Subcontractor, terminate this subcontract in whole or in part if the Subcontractor fails to—
 - (i) Deliver the supplies or to perform the services within the time specified in this subcontract or any extension;
 - (ii) Make progress, so as to endanger performance of this subcontract (but see subparagraph (a)(2) of this clause); or
 - (iii) Perform any of the other provisions of this subcontract (but see subparagraph (a) (2) of this clause).
- (2) NREL's right to terminate this subcontract under subparagraphs (a) (1) (i), (ii), and (iii) of this clause, may be exercised if the Subcontractor does not cure such failure within ten (10) days (or more if authorized in writing by the NREL Subcontract Administrator) after receipt of the notice from the NREL Subcontract Administrator specifying the failure.
- (b) If NREL terminates this subcontract in whole or in part, it may acquire, under the terms and in the manner the NREL Subcontract Administrator considers appropriate, supplies or services similar to those terminated, and the Subcontractor will be liable to NREL/Government for any excess costs for those supplies or services. However, the Subcontractor shall continue the work not terminated.

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- (c) Except for defaults of Subcontractors at any tier, the Subcontractor shall not be liable for any excess costs if the failure to perform the subcontract arises from causes beyond the control and without the fault or negligence of the Subcontractor. Examples of such causes include—
- (1) Acts of God or of the public enemy;
 - (2) Acts of the Government in either its sovereign or contractual capacity;
 - (3) Fires;
 - (4) Floods;
 - (5) Epidemics;
 - (6) Quarantine restrictions;
 - (7) Strikes;
 - (8) Freight embargoes; and
 - (9) Unusually severe weather.
- In each instance, the failure to perform must be beyond the control and without the fault or negligence of the Subcontractor.
- (d) If the failure to perform is caused by the default of a Subcontractor at any tier, and if the cause of the default is beyond the control of both the Subcontractor and lower-tier Subcontractor, and without the fault or negligence of either, the Subcontractor shall not be liable for any excess costs for failure to perform, unless the subcontracted supplies or services were obtainable from other sources in sufficient time for the Subcontractor to meet the required delivery subcontract schedule.
- (e) If this subcontract is terminated for default, NREL may require the Subcontractor to transfer title to the Government and deliver to NREL, as directed by the NREL Subcontract Administrator, any—
- (1) Completed supplies; and
 - (2) Partially completed supplies and materials, parts, tools, dies, jigs, fixtures, plans, drawings, information, and contract rights (collectively referred to as "manufacturing materials" in this clause) that the Subcontractor has specifically produced or acquired for the terminated portion of this subcontract. Upon direction of the NREL Subcontract Administrator, the Subcontractor shall also protect and preserve property in its possession in which NREL/Government has an interest.
- (f) NREL shall pay subcontract price for completed supplies delivered and accepted. The Subcontractor and NREL Subcontract Administrator shall agree on the amount of payment for manufacturing materials delivered and accepted and for the protection and preservation of the property. Failure to agree will be a dispute under the Disputes clause. NREL may withhold from these amounts any sum the NREL Subcontract Administrator determines to be necessary to protect NREL/Government against loss because of outstanding liens or claims of former lien holders.
- (g) If, after termination, it is determined that the Subcontract was not in default, or that the default was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of NREL/Government.
- (h) The rights and remedies of NREL/Government in this clause are in addition to any other rights and remedies provided by law or under this subcontract.

CLAUSE 48. EXCUSABLE DELAYS (APR 1984)

Derived from FAR 52.249-14 (FD)

(Applies to cost type subcontracts for supplies, services, construction, and research and development on a fee basis. Also applies to time and materials, labor hour and expenses subcontracts.)

- (a) Except for defaults of Subcontractors at any tier, the Subcontractor shall not be in default because of any failure to perform this subcontract under its terms if the failure arises from causes beyond the control and without the fault or negligence of the Subcontractor. Examples of these causes are—
- (1) Acts of God or of the public enemy;
 - (2) Acts of the Government in either its sovereign or contractual capacity;
 - (3) Fires;
 - (4) Floods;
 - (5) Epidemics;
 - (6) Quarantine restrictions;
 - (7) Strikes;
 - (8) Freight embargoes; and
 - (9) Unusually severe weather.
- In each instance, the failure to perform must be beyond the control and without the fault or negligence of the Subcontractor. "Default" includes failure to make progress in the work so as to endanger performance.
- (b) If the failure to perform is caused by the failure of a Subcontractor at any tier to perform or make progress, and if the cause of the failure was beyond the control of both the Subcontractor and lower-tier Subcontractor, and without the fault or negligence of either, the Subcontractor shall not be deemed to be in default, unless—
- (1) The lower-tier subcontracted supplies or services were obtainable from other sources;
 - (2) The NREL Subcontract Administrator ordered the Subcontractor in writing to purchase these supplies or services from the other source; and
 - (3) The Subcontractor failed to comply reasonably with this order.
- (c) Upon request of the Subcontractor, the NREL Subcontract Administrator shall ascertain the facts and extent of the failure. If the NREL Subcontract Administrator determines that any failure to perform results from one or more of the causes above, the delivery subcontract schedule shall be revised, subject to the rights of NREL/Government under the termination clause of this subcontract.

CLAUSE 49. SENSITIVE FOREIGN NATIONS CONTROLS (SPECIAL) (OCT 2011)

Derived from DEAR 952.204-71 (MAR 2011) (FD)

(Applies to all subcontracts.)

- (a) In connection with any activities in the performance of this subcontract, the Subcontractor agrees to comply with the "Sensitive Foreign Nations Controls" requirements of the Department of Energy (DOE), under DOE Order 142.3 or superseding directives, relating to those countries, have been, be identified by DOE as sensitive foreign nations. The Subcontractor shall have the right to terminate its performance under this subcontract upon at least sixty (60) days prior written notice to the NREL Subcontract Administrator if the Subcontractor determines that it is unable, without substantially interfering with its polices or without adversely impacting its performance to continue performance of the work under this subcontract as a result of such notification. If the Subcontractor elects to terminate

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- performance, the provisions of this subcontract regarding termination for the convenience of the Government/NREL shall apply.
- (b) The provisions of this clause shall be included in any lower-tier subcontracts which may involve making unclassified information about nuclear technology available to sensitive foreign nations.

CLAUSE 50. PUBLIC AFFAIRS (SPECIAL) (OCT 2011)

Derived from DEAR 952.204-75

(Applies to subcontracts where the Subcontractor is required to release unclassified information related to NREL/DOE policies, programs, and activities.)

- (a) The Subcontractor must cooperate with NREL in releasing general, non-technical information concerning the existence of this subcontract, the identity of the parties, and the character and scope of the Subcontractor's effort to the public and news media, including but not limited to NREL/DOE policies, programs, and activities. The responsibilities under this clause must be accomplished through coordination with the NREL Subcontract Administrator and appropriate NREL public affairs personnel prior to the release of general, non-technical information.
- (b) The Subcontractor is responsible for the development, planning, and coordination of proactive approaches for the timely dissemination of general, non-technical information regarding NREL/DOE activities onsite and offsite, including, but not limited to, operations and programs. Proactive public affairs programs may utilize a variety of communication media, including public workshops, meetings or hearings, open houses, newsletters, press releases, conferences, audio/visual presentations, speeches, forums, tours, and other appropriate stakeholder interactions.
- (c) The Subcontractor's internal procedures must ensure that all releases of general, non-technical information to the public and news media are coordinated through, and approved by, a management official at an appropriate level within the Subcontractor's organization.
- (d) The Subcontractor must comply with the NREL Subcontract Administrator's direction for obtaining advance clearances on oral, written, and audio/visual informational material prepared for public dissemination or use.
- (e) Unless prohibited by law, the Subcontractor must notify the NREL Subcontract Administrator and appropriate NREL public affairs personnel of communications or contacts with Members of Congress relating to the effort performed under the subcontract.
- (f) The Subcontractor must notify the NREL Subcontract Administrator and appropriate NREL public affairs personnel of activities or situations that may attract regional or national news media attention and of non-routine inquiries from national news media relating to the effort performed under the subcontract.
- (g) In releases of general, non-technical information to the public and news media, the Subcontractor must fully and accurately identify the Subcontractor's relationship to NREL/DOE and fully and accurately credit NREL/DOE for its role in funding programs and projects resulting in scientific, technical, and other achievements.
- (h) The release or publication of information of a scientific or technical nature generated under this subcontract is governed by the provisions of Appendix C of this subcontract.

CLAUSE 51. DISPLACED EMPLOYEE HIRING PREFERENCE (JUNE 1997)

Derived from DEAR 952.226-74 (FD)

(Applies to all subcontracts exceeding \$500,000, except subcontracts for commercial items.)

- (a) Definition.
Eligible employee means a current or former employee of a Contractor or Subcontractor employed at a Department of Energy Defense Nuclear Facility (1) whose position of employment has been, or will be, involuntarily terminated (except if terminated for cause), (2) who has also met the eligibility criteria contained in the Department of Energy guidance for Contractor work force restructuring, as may be amended or supplemented from time to time, and (3) who is qualified for a particular job vacancy with the Department or one of its Contractors or Subcontractors with respect to work under its Contract with the Department at the time the particular position is available.
- (b) Consistent with Department of Energy guidance for Contractor work force restructuring, as may be amended or supplemented from time to time, the Subcontractor agrees that it will provide a preference in hiring to an eligible employee to the extent practicable for work performed under this subcontract.
- (c) The requirements of this clause shall be included in subcontracts at any tier (except for lower-tier subcontracts for commercial items pursuant to 41 U.S.C. 403) expected to exceed \$500,000.

CLAUSE 52. RESEARCH MISCONDUCT (JUL 2005)

Derived from DEAR 952.235-71 (FD)

(Applies to all subcontracts where the Subcontractor will propose, perform, or review research of any kind.)

- (a) The Subcontractor is responsible for maintaining the integrity of research performed pursuant to this subcontract award including the prevention, detection, and remediation of research misconduct as defined by this clause, and the conduct of inquiries, investigations, and adjudication of allegations of research misconduct in accordance with the requirements of this clause.
- (b) Unless otherwise instructed by the NREL Subcontract Administrator, the Subcontractor must conduct an initial inquiry into any allegation of research misconduct. If the Subcontractor determines that there is sufficient evidence to proceed to an investigation, it must notify the NREL Subcontract Administrator and, unless otherwise instructed, the Subcontractor must:
 - (1) Conduct an investigation to develop a complete factual record and an examination of such record leading to either a finding of research misconduct and an identification of appropriate remedies or a determination that no further action is warranted;
 - (2) Conduct adjudication, if the investigation leads to a finding of research misconduct, by a responsible official who was not involved in the inquiry or investigation and is separated organizationally from the element which conducted the investigation. The adjudication must include a review of the investigative record and, as warranted, a determination of appropriate corrective actions and sanctions.
 - (3) Inform the NREL Subcontract Administrator if an initial inquiry supports a formal investigation and, if requested by the NREL Subcontract Administrator thereafter, keep the NREL Subcontract Administrator informed of the results of the investigation and any subsequent adjudication. When an investigation is complete, the Subcontractor will forward to the NREL Subcontract

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- Administrator a copy of the evidentiary record, the investigative report, any recommendations made to the Subcontractor's adjudicating official, and the adjudicating official's decision and notification of any corrective action taken or planned, and the subject's written response (if any).
- (c) NREL/DOE may elect to act in lieu of the Subcontractor in conducting an inquiry or investigation into an allegation of research misconduct if the NREL Subcontract Administrator finds that:
- (1) The research organization is not prepared to handle the allegation in a manner consistent with this clause;
 - (2) The allegation involves an entity of sufficiently small size that it cannot reasonably conduct the inquiry;
 - (3) NREL/DOE involvement is necessary to ensure the public health, safety, and security, or to prevent harm to the public interest; or
 - (4) The allegation involves possible criminal misconduct.
- (d) In conducting the activities under paragraphs (b) and (c) of this clause, the Subcontractor and NREL, if it elects to conduct the inquiry or investigation, shall adhere to the following guidelines:
- (1) Safeguards for information and subjects of allegations. The Subcontractor shall provide safeguards to ensure that individuals may bring allegations of research misconduct made in good faith to the attention of the Subcontractor without suffering retribution. Safeguards include: protection against retaliation; fair and objective procedures for examining and resolving allegations; and diligence in protecting positions and reputations. The Subcontractor shall also provide the subjects of allegations confidence that their rights are protected and that the mere filing of an allegation of research misconduct will not result in an adverse action. Safeguards include timely written notice regarding substantive allegations against them, a description of the allegation and reasonable access to any evidence submitted to support the allegation or developed in response to an allegation, and notice of any findings of research misconduct.
 - (2) Objectivity and Expertise. The Subcontractor shall select individual(s) to inquire, investigate, and adjudicate allegations of research misconduct that have appropriate expertise and have no unresolved conflict of interest. The individual(s) who conduct(s) adjudication must not be the same individual(s) who conducted the inquiry or investigation, and must be separate organizationally from the element that conducted the inquiry or investigation.
 - (3) Timeliness. The Subcontractor shall coordinate, inquire, investigate, and adjudicate allegations of research misconduct promptly, but thoroughly. Generally, an investigation should be completed within one hundred twenty (120) days of initiation, and adjudication should be complete within sixty (60) days of receipt of the record of investigation.
 - (4) Confidentiality. To the extent possible, consistent with fair and thorough processing of allegations of research misconduct and applicable law and regulation, knowledge about the identity of the subjects of allegations, and informants should be limited to those with a need to know.
 - (5) Remediation and Sanction. If the Subcontractor finds that research misconduct has occurred, it shall assess the seriousness of the misconduct and its impact on the research completed or in process. The Subcontractor must take all necessary corrective actions. Such actions may include, but are not limited to, correcting the research record and as appropriate imposing restrictions, controls, or other parameters on research in process or to be

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conducted in the future. The Subcontractor must coordinate remedial actions with the NREL Subcontract Administrator. The Subcontractor must also consider whether personnel sanctions are appropriate. Any such sanction must be considered and effected consistent with any applicable personnel laws, policies, and procedures, and shall take into account the seriousness of the misconduct and its impact, whether it was done knowingly or intentionally, and whether it was an isolated event or pattern of conduct.

- (e) NREL/DOE reserves the right to pursue such remedies and other actions as it deems appropriate, consistent with the terms and conditions of the award instrument and applicable laws and regulations. However, the Subcontractor's good faith administration of this clause and the effectiveness of its remedial actions and sanctions shall be positive considerations and shall be taken into account as mitigating factors in assessing the need for such actions. If NREL/DOE pursues any such action, it will inform the subject of the action of the outcome and any applicable appeal procedures.
- (f) Definitions.
 - (1) "Adjudication," as used in this clause, means a formal review of a record of investigation of alleged research misconduct to determine whether and what corrective actions and sanctions should be taken.
 - (2) "Fabrication," as used in this clause, means making up data or results and recording or reporting them.
 - (3) "Falsification," as used in this clause, means manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.
 - (4) "Finding of Research Misconduct," as used in this clause, means a determination, based on a preponderance of the evidence that research misconduct has occurred. Such a finding requires a conclusion that there has been a significant departure from accepted practices of the relevant research community and that it be knowingly, intentionally, or recklessly committed.
 - (5) "Inquiry," as used in this clause, means information gathering and initial fact-finding to determine whether an allegation or apparent instance of misconduct warrants an investigation.
 - (6) "Investigation," as used in this clause, means the formal examination and evaluation of the relevant facts.
 - (7) "Plagiarism," as used in this clause, means the appropriation of another person's ideas, processes, results, or words without giving appropriate credit.
 - (8) "Research," as used in this clause, means all basic, applied, and demonstration research in all fields of science, medicine, engineering, and mathematics, including, but not limited to, research in economics, education, linguistics, medicine, psychology, social sciences statistics, and research involving human subjects or animals.
 - (9) "Research Misconduct," as used in this clause, means fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results, but does not include honest error or differences of opinion.
 - (10) "Research Record," as used in this clause, means the record of all data or results that embody the facts resulting from scientists' inquiries, including, but not limited to, research proposals; laboratory records, both physical and electronic; progress reports; abstracts; theses; oral presentations; internal reports; and journal articles.

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- (g) By executing this subcontract, the Subcontractor provides its assurance that it has established an administrative process for performing an inquiry, mediating if possible, or investigating, and reporting allegations of research misconduct; and that it will comply with its own administrative process and the requirements of 10 CFR part 733 for performing an inquiry, possible mediation, investigation and reporting of research misconduct.
- (h) The Subcontractor must insert or have inserted the substance of this clause, including paragraph (g), in subcontracts at all tiers that involve research.

CLAUSE 53. FOREIGN TRAVEL (SPECIAL) (JUN 2012)

Derived from DEAR 952.247-70 (JUN 2010) and DOE Order 551.1C (FD)

(Applies to all subcontracts where foreign travel is required.)

- (a) Subcontractor foreign travel shall be conducted pursuant to the requirements contained in Department of Energy (DOE) Order 551.1C, Official Foreign Travel, or its successor in effect at the time of award.
- (b) All foreign travel (one trip or multiple trips), if required in performance of the subcontract, shall be subject to prior approval of the Department of Energy and an approved Electronic Country Clearance (eCC) from the U.S. Department of State.
- (c) Foreign travel is defined as travel from the United States (including Alaska, Hawaii, the Commonwealth of Puerto Rico and the Northern Mariana Islands, and the territories and possessions of the United States) to a foreign country and return, travel between foreign countries, by persons, including foreign nationals, whose salaries or travel expenses or both will ultimately be funded in whole or in part by NREL/DOE. Foreign travel also includes travel funded by non-NREL/DOE sources for which the traveler represents NREL/DOE or conducts business on behalf of NREL/DOE or the U.S. Government.
- (d) Request for approval of foreign travel shall be submitted to NREL on an NREL Foreign Travel Request form minimum of forty-five (45) days prior to the planned departure date.

CLAUSE 54. PRINTING (DEC 2000)

Derived from DEAR 970.5208-1 (FD)

(Applies to all subcontracts where printing is required as this term is defined in Title I of the U.S. Government Printing and Binding Regulations.)

- (a) To the extent that duplicating or printing services may be required in the performance of this subcontract, the Subcontractor shall provide or secure such services in accordance with the Government Printing and Binding Regulations, Title 44 of the U.S. Code, and DOE Directives relative thereto.
- (b) The term "Printing" includes the following processes: Composition, platemaking, presswork, binding, microform publishing, or the end items produced by such processes. Provided, however, that performance of a requirement under this subcontract involving the duplication of less than five thousand (5,000) copies of a single page, or no more than twenty-five thousand (25,000) units in the aggregate of multiple pages, will not be deemed to be printing.
- (c) Printing services not obtained in compliance with this guidance shall result in the cost of such printing being disallowed.
- (d) The Subcontractor shall include the substance of this clause in all lower-tier subcontracts hereunder which require printing (as that term is defined in Title I of the U.S. Government Printing and Binding Regulations).

CLAUSE 55. PROPERTY (SPECIAL) (JUL 2014)

Derived from DEAR 970.5245-1 (JAN 2013) and Alternate I (Dec 2000) (FD)

(Applies to all subcontracts where Government Property is to be furnished to or acquired by the Subcontractor.)

(Alternate I applies if the Subcontractor is a non-profit Subcontractor.)

- (a) **Furnishing of Government property.**
NREL/Government reserves the right to furnish any property or services required for the performance of the work under this subcontract.
- (b) **Title to property.**
Except as otherwise provided by the NREL Subcontract Administrator, title to all materials, equipment, supplies, and tangible personal property of every kind and description purchased by the Subcontractor, for the cost of which the Subcontractor is entitled to be reimbursed as a direct item of cost under this subcontract, shall pass directly from the vendor to the Government. NREL/Government reserves the right to inspect, and to accept or reject, any item of such property. The Subcontractor shall make such disposition of rejected items as the NREL Subcontract Administrator shall direct. Title to other property, the cost of which is reimbursable to the Subcontractor under this subcontract, shall pass to and vest in the Government upon:
 - (1) Issuance for use of such property in the performance of this subcontract; or
 - (2) Commencement of processing or use of such property in the performance of this subcontract; or
 - (3) Reimbursement of the cost thereof by NREL/Government, whichever first occurs.

Property furnished by NREL/Government and property purchased or furnished by the Subcontractor, title to which vests in the Government, under this paragraph are hereinafter referred to as Government property. Title to Government property shall not be affected by the incorporation of the property into or the attachment of it to any property not owned by the Government, nor shall such Government property or any part thereof, be or become a fixture or lose its identity as personality by reason of affixation to any realty.

- (c) **Identification.**
To the extent directed by the NREL Subcontract Administrator, the Subcontractor shall identify Government property coming into the Subcontractor's possession or custody, by marking and segregating in such a way, satisfactory to the NREL Subcontract Administrator, as shall indicate its ownership by the Government.
- (d) **Disposition.**
The Subcontractor shall make such disposition of Government property that has come into the possession or custody of the Subcontractor under this subcontract as the NREL Subcontract Administrator may direct during the progress of the work or upon completion or termination of this subcontract. Upon completion or termination of this subcontract, the Government through NREL shall:
 - (1) Determine if the equipment is excess;
 - (2) Make the equipment available to all other Government agencies; and
 - (3) Conduct an auction to dispose of the equipment if no other agency is interested in the property.

If the above does not result in disposition of the equipment, then the Subcontractor may, upon such terms and conditions as the NREL Subcontract Administrator may approve, sell or exchange such property, or acquire such property at a price agreed upon by the Government through the NREL Subcontract Administrator and the Subcontractor as the fair value thereof. The amount received by the Subcontractor as the result of any disposition, or the agreed fair value of any such property

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- acquired by the Subcontractor, shall be applied in reduction of costs allowable under this subcontract or shall be otherwise credited to account to NREL/Government, as the NREL Subcontract Administrator may direct. Upon completion of the work or the termination of this subcontract, the Subcontractor shall render an accounting, as prescribed by the NREL Subcontract Administrator, of all Government property which had come into the possession or custody of the Subcontractor under this subcontract.
- (e) Protection of Government property-management of high-risk property and classified materials.
- (1) The Subcontractor shall take all reasonable precautions, and such other actions as may be directed by the NREL Subcontract Administrator, or in the absence of such direction, in accordance with sound business practice, to safeguard and protect Government property in the Subcontractor's possession or custody.
 - (2) In addition, the Subcontractor shall ensure that adequate safeguards are in place, and adhered to, for the handling, control and disposition of high-risk property and classified materials throughout the life cycle of the property and materials consistent with the policies, practices and procedures for property management contained in the Federal Property Management regulations (41 CFR chapter 101), the Department of Energy Property Management regulations (41 CFR chapter 109), and other applicable regulations.
 - (3) High-risk property is property, the loss, destruction, damage to, or the unintended or premature transfer of which could pose risks to the public, the environment, or the national security interests of the United States. High-risk property includes proliferation sensitive, nuclear related dual use, export controlled, chemically or radioactively contaminated, hazardous, and specially designed and prepared property, including property on the militarily critical technologies list.
- (f) Risk of loss of Government property.
- (1) (i) The Subcontractor shall not be liable for the loss or destruction of, or damage to, Government property unless such loss, destruction, or damage was caused by any of the following:
 - (A) Willful misconduct or lack of good faith on the part of the Subcontractor's managerial personnel;
 - (B) Failure of the Subcontractor's managerial personnel to take all reasonable steps to comply with any appropriate written direction of the NREL Subcontract Administrator to safeguard such property under paragraph (e) of this clause; or
 - (C) Failure of Subcontractor managerial personnel to establish, administer, or properly maintain an approved property management system in accordance with paragraph (i)(1) of this clause.
 - (ii) If, after an initial review of the facts, the NREL Subcontract Administrator informs the Subcontractor that there is reason to believe that the loss, destruction of, or damage to the Government property results from conduct falling within one of the categories set forth above, the burden of proof shall be upon the Subcontractor to show that the Subcontractor should not be required to compensate NREL/Government for the loss, destruction, or damage.
- (2) In the event that the Subcontractor is determined liable for the loss, destruction or damage to Government property in accordance with (f)(1) of

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this clause, the Subcontractor's compensation to NREL/Government shall be determined as follows:

- (i) For damaged property, the compensation shall be the cost of repairing such damaged property, plus any costs incurred for temporary replacement of the damaged property. However, the value of repair costs shall not exceed the fair market value of the damaged property. If a fair market value of the property does not exist, the Government through the NREL Subcontract Administrator shall determine the value of such property, consistent with all relevant facts and circumstances.
 - (ii) For destroyed or lost property, the compensation shall be the fair market value of such property at the time of such loss or destruction, plus any costs incurred for temporary replacement and costs associated with the disposition of destroyed property. If a fair market value of the property does not exist, the Government through the NREL Subcontract Administrator shall determine the value of such property, consistent with all relevant facts and circumstances.
- (3) The portion of the cost of insurance obtained by the Subcontractor that is allocable to coverage of risks of loss referred to in paragraph (f)(1) of this clause is not allowable.
- (g) Steps to be taken in event of loss.
In the event of any damage, destruction, or loss to Government property in the possession or custody of the Subcontractor with a value above the threshold set out in the Subcontractor's approved property management system, the Subcontractor:
- (1) Shall immediately inform the NREL Subcontract Administrator of the occasion and extent thereof;
 - (2) Shall take all reasonable steps to protect the property remaining; and
 - (3) Shall repair or replace the damaged, destroyed, or lost property in accordance with the written direction of the NREL Subcontract Administrator. The Subcontractor shall take no action prejudicial to the right of NREL/Government to recover and, therefore, shall furnish to NREL/Government, on request, all reasonable assistance in obtaining recovery.
- (h) Government property for NREL/Government use only.
Government property shall be used only for the performance of this subcontract.
- (i) Property Management.
- (1) Property Management System.
 - (i) The Subcontractor shall establish, administer, and properly maintain an approved property management system of accounting for and control, utilization, maintenance, repair, protection, preservation, and disposition of Government property in its possession under the subcontract. The Subcontractor's property management system shall be submitted to the NREL Subcontract Administrator for approval and shall be maintained and administered in accordance with sound business practice, applicable Federal Property Management regulations and Department of Energy Property Management regulations, and such directives or instructions which the NREL Subcontract Administrator may from time to time prescribe.
 - (ii) In order for a property management system to be approved, it must provide for:

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- (A) Comprehensive coverage of property from the requirement identification, through its life cycle, to final disposition;
 - (B) [Reserved];
 - (C) Full integration with the Subcontractor's other administrative and financial systems; and
 - (D) A method for continuously improving property management practices through the identification of best practices established by "best in class" performers.
- (iii) Approval of the Subcontractor's property management system shall be contingent upon the completion of the baseline inventory as provided in subparagraph (i)(2) of this clause.
- (2) Property Inventory.
- (i) Unless otherwise directed by the NREL Subcontract Administrator, the Subcontractor shall, within six (6) months after execution of the subcontract, provide a baseline inventory covering all items of Government property.
 - (ii) If the Subcontractor is succeeding another Subcontractor in the performance of this subcontract, the Subcontractor shall conduct a joint reconciliation of the property inventory with the predecessor Subcontractor. The Subcontractor agrees to participate in a joint reconciliation of the property inventory at the completion of this subcontract. This information will be used to provide a baseline for the succeeding subcontract as well as information for closeout of the predecessor subcontract.
- (j) The term "Subcontractor's managerial personnel," as used in this clause, means the Subcontractor's directors, officers and any of its managers, superintendents, or other equivalent representatives who have supervision or direction of:
- (1) All or substantially all of the Subcontractor's business; or
 - (2) All or substantially all of the Subcontractor's operations at any one facility or separate location to which this subcontract is being performed; or
 - (3) A separate and complete major industrial operation in connection with the performance of this subcontract; or
 - (4) A separate and complete major construction, alteration, or repair operation in connection with performance of this subcontract; or
 - (5) A separate and discrete major task or operation in connection with the performance of this subcontract.
- (k) The Subcontractor shall include this clause in all cost reimbursable lower-tier subcontracts.

ALTERNATE I (DEC 2000)

If the Subcontractor is a non-profit Subcontractor replace paragraph (j) of the basic clause with the following paragraph (j):

- (a) The term "Subcontractor's managerial personnel," as used in this clause, means the Subcontractor's directors, officers, and any of its managers, superintendents, or other equivalent representatives who have supervision or direction of all or substantially all of:
 - (1) The Subcontractor's business; or
 - (2) The Subcontractor's operations at any one facility or separate location at which this subcontract is being performed; or
 - (3) The Subcontractor's property system and/or a Major System Acquisition or Major Project as defined in DOE Order 4700.1 (Version in effect on effective date of subcontract).

SECTION II. CLAUSES APPLICABLE TO SUBCONTRACTS THAT REQUIRE PERFORMANCE ON NREL-OPERATED FACILITIES

The following clauses are applicable to subcontracts that require the Subcontractor or its lower-tier Subcontractors, or other persons representing the Subcontractor, to perform work on NREL-operated facilities or Government -owned or -leased properties.

CLAUSE 56. SECURITY AND ACCESS REQUIREMENTS (SPECIAL) (JAN 2009)

Derived from NREL 08.100-02

(Applies to all subcontracts where the Subcontractor or lower-tier Subcontractors, and their employees, officers, agents, or other persons representing the Subcontractor, will perform work on NREL-operated facilities or government-owned or -leased properties.)

- (a) Security requirements.
 - (1) NREL has established security requirements to govern access onto NREL operated facilities or government-owned or -leased properties (here after "NREL operated facilities") by the Subcontractor's employees (and its lower-tier Subcontractors' employees), officers, agents, and any other persons representing the Subcontractor.
 - (i) The introduction of certain "controlled" commodities and/or activities on the NREL operated facilities is prohibited. Prohibited articles include firearms, explosive devices, incendiary devices, dangerous weapons or materials, controlled substances (illegal drugs), alcoholic beverages, and livestock. NREL operated facilities and DOE-owned or -leased property are closed to all hunting.
 - (2) As a condition of entry to NREL operated facilities, the Subcontractor agrees to permit NREL Security personnel to search the Subcontractor's employees (and its lower-tier Subcontractors' employees) and their officers and agents' vehicles, packages, tool boxes, or other containers for the purpose of preventing prohibited articles to be brought onto NREL operated facilities or to detect or deter the unauthorized removal of Government property from NREL operated facilities.
 - (3) The Subcontractor is solely responsible for the security of the Subcontractor's employees (and its lower-tier Subcontractors' employees) and their officers and agents' materials and equipment at the NREL operated facilities. Any security system the Subcontractor may elect to use (fences, keys, alarms, etc.) must be coordinated with the NREL Technical Monitor.
 - (4) The Subcontractor is responsible to advise the NREL Technical Monitor promptly of any non-routine events, occurrences, incidents, accidents, etc., particularly in situations involving lost-time accidents and ambulance runs, occurring under this subcontract.
 - (5) NREL Security reserves the right to revoke site access authorization for any person violating NREL or DOE security policies and procedures.
- (b) Access requirements for U.S. citizens.
 - (1) Access to NREL operated facilities is controlled in accordance with DOE's security requirements. The Subcontractor shall ensure that any of the Subcontractor's employees (and its lower-tier Subcontractors' employees) and their officers and agents who will enter onto the NREL operated facilities are specifically authorized site access under the NREL requirements set forth in the NREL Access Control Policy and Program, including identification, badging, and registration by NREL Security. A two-week advance notice to

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NREL Security processed through the NREL Subcontract Administrator is required prior to access by U.S. citizens.

- (c) Access requirements for persons who are not U.S. citizens.
- (1) The Subcontractor shall ensure that any of the Subcontractor's employees (or its lower-tier Subcontractors' employees), officers, and agents who will enter onto NREL operated facilities and who are not U.S. citizens meet the requirements set forth in NREL's Foreign National Management Policy and Program, including: (a) appropriate work authorization documentation (i.e. Visa); (b) completion of an NREL Foreign National Data Card; and (c) NREL Manager-level approval.
 - (2) Foreign Nationals from DOE-designated "Sensitive Countries" will be processed for a federal background check. This process requires a minimum of two (2) weeks. Foreign Nationals from DOE-designated "Terrorist Supporting Countries" will not be allowed. The Subcontractor should contact the NREL Subcontract Administrator to obtain the most current listing of "Sensitive Countries" and "Terrorist Supporting Countries."
 - (i) It is the Subcontractor's responsibility to obtain and provide all necessary information and documentation to meet NREL, DOE, and federal requirements regarding Subcontractors' employees (or its lower-tier Subcontractors' employees), officers', and agents' work authorization and identification to the NREL Technical Monitor and the NREL Subcontract Administrator to meet the appropriate time frames for NREL Security to process and approve the request for access. Any person(s) denied access by NREL Security or DOE shall not be assigned by the Subcontractor to enter onto or perform subcontract work at NREL operated facilities.
 - (3) Prior to the initiation of a subcontract that requires entry onto NREL operated facilities, the Subcontractor shall provide to the NREL Subcontract Administrator advance notice and necessary evidence (including Visa types and expiration dates) that legally sufficient work permits have been obtained from the U.S. Citizenship and Immigration Services. Further, the Subcontractor is responsible to ensure that such permits are properly maintained for any of the Subcontractor's employees (and its lower-tier Subcontractors' employees) and their officers and agents who are not U.S. citizens for the duration of subcontract work at NREL operated facilities.
 - (4) After the Subcontractor (and its lower-tier Subcontractors) has commenced work under the subcontract, the Subcontractor shall provide to the NREL Subcontract Administrator the same advance notice and necessary evidence (including Visa types and expiration dates) for all subsequently assigned individuals who are not U.S. citizens who will enter onto NREL operated facilities.
- (d) Access Requirements for all persons.
- (1) All persons entering NREL operated facilities must display a valid NREL- or DOE- issued identification badge. The Subcontractor is responsible to coordinate badge requirements for entrance onto NREL operated facilities for all the Subcontractor's employees (and lower-tier Subcontractors' employees) and their officers and agents to ensure the display and return of all issued badges.
 - (2) The Subcontractor is responsible to coordinate with the NREL Technical Monitor all vehicle parking requirements needed to perform the subcontract work on the NREL operated facilities. Vehicle access by Subcontractors and

other visitors to the NREL operated facilities is controlled on a 24-hour, 7-day per week basis.

- (3) The Subcontractor is cautioned that effective January 1, 2007, the Colorado Revised Statutes (CRS 8-2-122) require employers that transact business in Colorado to comply with employment verification requirements to affirm that the employer has examined the legal work status of newly-hired employees and has retained file copies of the documents required by the Federal Immigration Reform and Control Act (8 USC 1324a).

CLAUSE 57. WORKER SAFETY AND HEALTH REQUIREMENTS (SPECIAL) (FEB 2009)

Derived from NREL 09.100-02

(Applies to all subcontracts where the Subcontractor or lower-tier Subcontractors, and their employees, officers, agents, or other persons representing the Subcontractor, will perform work on NREL-operated facilities or government-owned or -leased properties.)

- (a) **THE SUBCONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL WORK PERFORMED UNDER THIS SUBCONTRACT (INCLUSIVE OF LOWER-TIER SUBCONTRACTORS) IS PERFORMED IN ACCORDANCE WITH THE DEPARTMENT OF ENERGY'S "WORKER SAFETY AND HEALTH" RULE CODIFIED AT 10 CFR 851. THE SUBCONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH NREL'S DOE-APPROVED SAFETY MANAGEMENT SYSTEM. THE SUBCONTRACTOR IS SUBJECT TO ALL APPLICABLE PROCEDURES FOR INVESTIGATING VIOLATIONS, ENFORCING COMPLIANCE WITH REQUIREMENTS, AND ASSESSING CIVIL PENALTIES OR FEE REDUCTIONS FOR VIOLATIONS UNDER DOE'S "WORKER SAFETY AND HEALTH" RULE. WHEN THESE "WORKER SAFETY AND HEALTH REQUIREMENTS" ARE MADE APPLICABLE TO THE WORK TO BE PERFORMED UNDER AN NREL SUBCONTRACT, THE SUBCONTRACTOR SHALL ALSO COMPLY WITH THE CLAUSE "INTEGRATION OF ENVIRONMENT, SAFETY, AND HEALTH INTO WORK PLANNING AND EXECUTION" (DEAR 970.5223-1).**
- (b) The Subcontractor shall have a structured approach to its worker safety and health program that at a minimum meets the mandatory requirements specified in Appendix A of 10 CFR 851 for implementing any of the following functional areas applicable to the work to be performed: (1) construction safety; (2) fire protection; (3) firearms safety; (4) explosives safety; (5) pressure safety; (6) electrical safety; (7) industrial hygiene; (8) occupational medicine; (9) biological safety; and (10) motor vehicle safety.
- (c) The Subcontractor shall be responsible for full compliance (inclusive of its lower-tier Subcontractors) with all applicable worker safety and health standards of DOE and NREL to provide subcontract work that is free from recognized hazards that are causing or have the potential to cause death or serious physical harm to workers. The Subcontractor shall comply with all Safety and Health Standards applicable to the hazards of the work to be performed, including but not limited to: (a) 29 CFR 1904 Recording and Reporting Occupational Injuries and Illnesses; (b) 29 CFR 1910 Occupational Safety and Health Standards and ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices; (c) 29 CFR 1926 Safety and Health Regulations for Construction; (d) ANSI Z88.2 Respiratory Protection; (e) ANSI Z136.1 Safe Use of Lasers; (f) ANSI Z49.1 Welding, Cutting, and Allied Processes; (g) NFPA 70 National Electrical Code; and (h) NFPA 70E Standard for Electrical Safety in the Workplace. Nothing in this Paragraph (c) shall be construed as relieving the Subcontractor from complying with any additional specific safety and health requirements necessary to protect the safety and health of workers.

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- (d) In conforming to the worker safety and health requirements identified the Subcontractor shall provide at least worker safety and health supervision in the following areas: (1) management responsibilities; (2) worker rights and responsibilities; (3) hazard identification and assessment; (4) hazard prevention and abatement; (5) training and information; and (6) recordkeeping and reporting.
- (e) NREL may inspect the Subcontractor's operation as work proceeds, from time to time, for compliance with worker safety and health requirements contained in this subcontract. The NREL Subcontract Administrator shall direct the Subcontractor to make the necessary corrections commensurate with deficiencies found. The Subcontractor shall make these corrections at no additional expense to NREL. The Subcontractor shall participate in NREL's fact-finding investigations of accidents, injuries, occurrences, and near-misses. The Subcontractor shall participate in fact-finding investigations at no additional expense to NREL. The Subcontractor shall remove from the work site any employee that NREL identifies in writing as unsafe, incompetent, careless, or otherwise objectionable. The Subcontractor shall replace the removed employee at no additional expense to NREL. Any NREL representatives, NREL Subcontractors, or DOE representatives, including but not limited to the NREL Technical Monitor or Project Manager, the DOE Federal Project Director, the NREL Subcontract Administrator and NREL and DOE EHSS&Q representatives have authority to stop work if unsafe conditions exist. The Subcontractor shall not be entitled to an extension of time or additional fee or damages by reason of or in connection with any unsafe conditions work stoppage. The Subcontractor's violation, refusal, or failure to abate violations, or applicable deficiencies may be justification for subcontract termination in accordance with the termination or default clauses of the subcontract terms and conditions.
- (f) The Subcontractor shall complete and post the Form DOE-F-5480.4 at the work site. The Subcontractor shall make available Form DOE-F-5480.4, "[Sub]Contractor Employee Occupational Safety or Health Complaint" to its employees. The Subcontractor shall maintain specific records and submit the information covering experience of both its direct employees and that of its lower-tier Subcontractors. The Subcontractor shall immediately provide to the NREL Technical Monitor or Project Manager and the NREL Subcontract Administrator notification of any injury or property damage incident and provide sufficient information necessary for NREL to complete DOE-F-5484.3 "The Individual Accident/Incident Report." Such information shall be submitted, as appropriate, for any period of time prior to final payment and closeout of this subcontract.

CLAUSE 58. DRUG-FREE WORKPLACE (MAY 2001)

Derived from FAR 52.223-6 (FD)

(Applies to all subcontracts where work is to be performed on NREL operated facilities, including Government-owned or - leased property.)

- (a) Definitions, as used in this clause,
 - (1) "Controlled substance," means a controlled substance in subcontract schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812) and as further defined in regulation at 21 CFR 1308.11 - 1308.15.
 - (2) "Conviction," means a finding of guilt (including a plea of nolo contendere) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the Federal or State criminal drug statutes.

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- (3) "Criminal drug statute," means a Federal or non-Federal criminal statute involving the manufacture, distribution, dispensing, possession, or use of any controlled substance.
 - (4) "Drug-free workplace," means the NREL-operated site(s) for the performance of work done by the Subcontractor in connection with a specific subcontract where employees of the Subcontractor are prohibited from engaging in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance.
 - (5) "Employee," means an employee of a Subcontractor directly engaged in the performance of work under a NREL subcontract. "Directly engaged" is defined to include all direct cost employees and any other Subcontractor employee who has other than a minimal impact or involvement in subcontract performance.
 - (6) "Individual," means a Subcontractor that has no more than one employee including the Subcontractor.
- (b) The Subcontractor, if other than an individual, shall—within thirty (30) days after award (unless a longer period is agreed to in writing for subcontracts of thirty (30) days or more performance duration), or as soon as possible for subcontracts of less than thirty (30) days performance duration—
- (1) Publish a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Subcontractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition;
 - (2) Establish an ongoing drug-free awareness program to inform such employees about—
 - (i) The dangers of drug abuse in the workplace;
 - (ii) The Subcontractor's policy of maintaining a drug-free workplace;
 - (iii) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (iv) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
 - (3) Provide all employees engaged in performance of the Subcontract with a copy of the statement required by subparagraph (b)(1) of this clause;
 - (4) Notify such employees in writing in the statement required by subparagraph (b)(1) of this clause that, as a condition of continued employment on this Subcontract, the employee will—
 - (i) Abide by the terms of the statement; and
 - (ii) Notify the employer in writing of the employee's conviction under a criminal drug statute for a violation occurring in the workplace no later than five (5) days after such conviction;
 - (5) Notify the NREL Subcontract Administrator in writing within ten (10) days after receiving notice under subdivision (b) (4) (ii) of this clause, from an employee or otherwise receiving actual notice of such conviction. The notice shall include the position title of the employee;
 - (6) Within thirty (30) days after receiving notice under subdivision (b)(4)(ii) of this clause of a conviction, take one of the following actions with respect to any employee who is convicted of a drug abuse violation occurring in the workplace:
 - (i) Taking appropriate personnel action against such employee, up to and including termination; or

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- (ii) Require such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, state, or local health, law enforcement, or other appropriate agency; and
- (7) Make a good faith effort to maintain a drug-free workplace through implementation of subparagraphs (b)(1) through (b)(6) of this clause.
- (c) The Subcontractor, if an individual, agrees by award of the subcontract or acceptance of a purchase order, not to engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance while performing this subcontract.
- (d) In addition to other remedies available to the NREL and the Government, the Subcontractor's failure to comply with the requirements of paragraph (b) or (c) of this clause may, pursuant to FAR 23.506, render the Subcontractor subject to suspension of subcontract payments, termination of the subcontract or default, and suspension or debarment."

**CLAUSE 59. ENERGY EFFICIENCY IN ENERGY-CONSUMING PRODUCTS (SPECIAL)
(OCT 2008)**

Derived from FAR 52.223-15 (DEC 2007) (FD)

(Applies to all subcontracts where energy consuming products will be delivered, acquired, or furnished for use by the Subcontractor or for use on NREL-operated facilities or government-owned or -leased properties.)

- (a) Definition. As used in this clause—
 - (1) "Energy-efficient product"—
 - (i) Means a product that—
 - meets DOE and Environmental Protection Agency criteria for use of the Energy Star® trademark label; or
 - (ii) Is in the upper twenty-five percent (25%) of efficiency for all similar products as designated by the Department of Energy's Federal Energy Management Program (FEMP).
 - (2) [Reserved.]
 - (b) The Subcontractor shall ensure that energy-consuming products are energy efficient products (i.e., ENERGY STAR® products or FEMP-designated products) at the time of subcontract award, for products that are—
 - (1) Delivered;
 - (2) Acquired by the Subcontractor for use in performing services at a DOE-owned or -leased facility;
 - (3) Furnished by the Subcontractor for use by NREL/Government; or
 - (4) Specified in the design of a building or work, or incorporated during its construction, renovation, or maintenance.
 - (c) The requirements of paragraph (b) apply to the Subcontractor (including any lower-tier Subcontractor) unless—
 - (1) The energy-consuming product is not listed in the ENERGY STAR® Program or FEMP; or
 - (2) Otherwise approved in writing by the NREL Subcontract Administrator.
 - (d) Information about these products is available for—
 - (1) ENERGY STAR® at <http://www.energystar.gov/products>; and
 - (2) FEMP at http://www1.eere.energy.gov/femp/procurement/eeep_requirements.html.

CLAUSE 60. INSURANCE-WORK ON A GOVERNMENT INSTALLATION (SPECIAL) (JAN 2009) AND ALTERNATE I – ARCHITECT/ENGINEER SUBCONTRACTS (JAN 2009)

Derived from FAR 52.228-5 (JAN 1997)

(Applies to all subcontracts, except construction and design-build subcontracts, where the Subcontractor or lower-tier Subcontractors, and their employees, officers, agents, or other persons representing the Subcontractor, will perform work on NREL-operated facilities or Government-owned or -leased properties.

(Alternate I applies to Architect/Engineer subcontracts.)

- (a) The Subcontractor shall, at its own expense, maintain and keep in force during the entire performance period of this subcontract at least the kinds and minimum amounts of insurance required in this clause.

Insurance Type	Bodily Injury		Property Damage
	Each Person	Each Occurrence	
Workers' Compensation	As Required by Law	As Required by Law	N/A
Employer's Liability	\$1,000,000.00	\$1,000,000.00	N/A
General Liability	\$1,000,000.00	\$1,000,000.00	\$1,000,000.00
Automobile Liability	\$1,000,000.00	\$1,000,000.00	\$1,000,000.00

- (b) Before commencing work under this subcontract, the Subcontractor shall obtain the required insurance and shall maintain such required insurance for the entire period of performance of this subcontract. The Subcontractor shall immediately notify the NREL Subcontract Administrator in the event of any termination, cancellation, reduction, or other material change adversely affecting NREL's/Government's interest in the required insurance.
- (c) The Subcontractor shall insert the substance of this clause, including this Paragraph (c), in lower-tier subcontracts under this subcontract that require work on a NREL-operated facility, or Government-owned or -leased properties and shall require the lower-tier Subcontractors to provide and maintain the same kinds and minimum amounts of insurance required under this subcontract (exceptions to this requirement will require prior approval from the NREL Subcontract Administrator). The Subcontractor shall maintain a copy of all the lower-tier Subcontractors' proof of required insurance, and shall make copies available to the NREL Subcontract Administrator upon request.

ALTERNATE I

(When the subcontract includes architect/engineer services, replace paragraph (b) with the following paragraph (b) and add the following paragraph (d) to the clause.)

- (a) Before commencing work under this subcontract, the Subcontractor shall provide the NREL Subcontract Administrator with written proof that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Alliance for Sustainable Energy, LLC and the Government's interest shall not be effective—
 - (1) For such period as the laws of the state in which this subcontract is to be performed prescribe; or

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(2) Until thirty (30) days after the insurer or the Subcontractor gives written notice to the NREL Subcontract Administrator, whichever period is longer.

The Subcontractor shall immediately notify the NREL Subcontract Administrator in the event of any termination, cancellation, reduction or other material change adversely affecting the Alliance for Sustainable Energy, LLC and the Government's interest in the required insurance.

- (b) The Subcontractor shall, at its own expense, provide and maintain at least the kinds and minimum amounts of Architect/Engineer Professional Liability and Errors and Omissions insurance required in this clause. Architect/Engineer Professional Liability and Errors and Omissions insurance shall be provided and maintained during the entire performance of the subcontract and for five (5) years after the completion of the work. The Subcontractor shall flow down this insurance requirement to its lower-tier Subcontractors providing Architect/Engineer professional services. Such flow down to lower-tiers shall not be construed to relieve the Subcontractor from its obligations under this clause.

Insurance Type		
	Per Claim	Aggregate Claims
Architect/Engineer Professional Liability and Errors and Omissions	\$1,000,000.00	\$1,000,000.00

CLAUSE 61. PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS AND SET OFF FOR HAZARDOUS MATERIALS RESPONSE, CLEANUP, AND DISPOSAL (NOV 2008)

Derived from FAR 52.236-9 (APR 1984)

(Applies to all subcontracts and purchase orders where the Subcontractor or lower-tier Subcontractors, and their employees, officers, agents, or other persons representing the Subcontractor, will enter onto NREL-operated facilities or government-owned or -leased properties.)

- (a) The Subcontractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required under this subcontract. The Subcontractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during subcontract performance, or by the careless operation of equipment, or by workmen, the Subcontractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the NREL Subcontract Administrator.
- (b) The Subcontractor shall protect from damage all existing improvements and utilities—
- (1) At or near the work site, and
 - (2) On adjacent property of a third party, the locations of which are made known to or should be known by the Subcontractor.
- (c) The Subcontractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this subcontract or failure to exercise reasonable care in performing

- the work. If the Subcontractor fails or refuses to repair the damage promptly, the NREL Subcontract Administrator may have the necessary work performed and charge the cost to the Subcontractor.
- (d) The Subcontractor shall be responsible for reasonable costs associated with NREL-directed emergency response, cleanup, and disposal of hazardous material, chemical, or petroleum spills caused by the Subcontractor or any of its lower-tier Subcontractors during performance of work required under this subcontract. Upon determination of reasonable costs to be back charged to the Subcontractor resulting from such hazardous material spills, the NREL Subcontract Administrator shall provide the Subcontractor with written notice of the work performed and the costs to be charged to the Subcontractor. The back charge shall be set off against the subcontract price and the subcontract shall be modified in writing. NREL has the right to set off such costs against any amount payable to the Subcontractor whether or not in connection with this subcontract.
 - (e) The rights and remedies of NREL/Government in this clause are in addition to any other rights and remedies provided by law or under this subcontract.

CLAUSE 62. PROTECTION OF NREL/GOVERNMENT BUILDINGS, EQUIPMENT, AND VEGETATION (APR 1984)

Derived from FAR 52.237-2

(Applies to service subcontracts not involving construction to be performed on Government-owned or -leased facility.)

The Subcontractor shall use reasonable care to avoid damaging existing buildings, equipment, and vegetation on NREL/Government installation. If the Subcontractor's failure to use reasonable care causes damage to any of this property, the Subcontractor shall replace or repair the damage at no expense to NREL/Government as the NREL Subcontract Administrator directs. If the Subcontractor fails or refuses to make such repair or replacement, the Subcontractor shall be liable for the cost, which may be deducted from the subcontract price.

CLAUSE 63. WHISTLEBLOWER PROTECTION FOR SUBCONTRACTOR EMPLOYEES (DEC 2000)

Derived from DEAR 952.203-70(FD)

(Applies to subcontracts for work directly related to activities at NREL-operated facilities or Government-owned or -leased properties.)

- (a) The Subcontractor shall comply with the requirements of "DOE Contractor Employee Protection Program" at 10 CFR Part 708 for work performed on behalf of NREL directly related to activities at DOE-owned or -leased sites.
- (b) The Subcontractor shall insert or have inserted the substance of this clause, including this paragraph (b) in subcontracts at all tiers, for subcontracts involving work performed on behalf of NREL directly related to activities at DOE-owned or -leased sites.

CLAUSE 64. INTEGRATION OF ENVIRONMENT, SAFETY, AND HEALTH INTO WORK PLANNING AND EXECUTION (NOV 2016)

Derived from DEAR 970.5223-1(FD)(DEC 2000)

(Applies to all subcontracts where the Subcontractor or lower-tier Subcontractors and their employees, officers, agents, or other persons representing the Subcontractor will perform complex or hazardous work on NREL-operated facilities or Government-owned or -leased properties.)

- (a) For the purposes of this clause:
 - (1) "Safety" encompasses environment, safety, and health, including pollution prevention and waste minimization; and
 - (2) "Employees" include lower-tier Subcontractor employees.
- (b) In performing work under this subcontract, the Subcontractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The Subcontractor shall exercise a degree of care commensurate with the work and the associated hazards. The Subcontractor shall ensure that management of environment, safety and health (ES&H) functions and activities becomes an integral but visible part of the Subcontractor's work planning and execution processes. The Subcontractor shall, in the performance of work, ensure that:
 - (1) Line management is responsible for the protection of employees, the public, and the environment. Line management includes those Subcontractor and lower-tier Subcontractor employees managing or supervising employees performing work.
 - (2) Clear and unambiguous lines of authority and responsibility for ensuring ES&H are established and maintained at all organizational levels.
 - (3) Personnel possess the experience, knowledge, skills, and abilities that are necessary to discharge their responsibilities.
 - (4) Resources are effectively allocated to address ES&H, programmatic, and operational considerations. Protecting employees, the public, and the environment is a priority whenever activities are planned and performed.
 - (5) Before work is performed, the associated hazards are evaluated and an agreed-upon set of ES&H standards and requirements are established which, if properly implemented, provide adequate assurance that employees, the public, and the environment are protected from adverse consequences.
 - (6) Upon discovery of potential cultural resources, the Subcontractor shall stop work immediately and report to the NREL Project Manager. The Subcontractor shall not handle, move, or otherwise disturb items that are potential cultural resources, either on the ground surface or buried/unearthed below the ground surface. Items discovered remain the property of DOE and may not be removed from the site. The Subcontractor shall not alter, damage, or deconstruct existing structures on the National Register of Historic Places as identified by the NREL Project Manager.
 - (7) Administrative and engineering controls to prevent and mitigate hazards are tailored to the work being performed and associated hazards. Emphasis should be on designing the work and/or controls to reduce or eliminate the hazards and to prevent accidents and unplanned releases and exposures.
 - (8) The conditions and requirements to be satisfied for operations to be initiated and conducted are established and agreed-upon by NREL/Government and the Subcontractor. These agreed-upon conditions and requirements are requirements of the subcontract and binding upon the Subcontractor. The extent of documentation and level of authority for agreement shall be tailored

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- to the complexity and hazards associated with the work and shall be established in a Safety Management System.
- (c) The Subcontractor shall manage and perform work in accordance with a documented Safety Management System (System) that fulfills all conditions in paragraph (b) of this clause at a minimum. Documentation of the System shall describe how the Subcontractor will:
 - (1) Define the scope of work;
 - (2) Identify and analyze hazards associated with the work;
 - (3) Develop and implement hazard controls;
 - (4) Perform work within controls; and
 - (5) Provide feedback on adequacy of controls and continue to improve safety management.
 - (d) The System shall describe how the Subcontractor will establish, document, and implement safety performance objectives, performance measures, and commitments in response to NREL/DOE program and budget execution guidance while maintaining the integrity of the System. The System shall also describe how the Subcontractor will measure system effectiveness.
 - (e) The Subcontractor shall submit to the NREL Subcontract Administrator documentation of its System for review and approval. Dates for submittal, discussions, and revisions to the System will be established by the NREL Subcontract Administrator. Guidance on the preparation, content, review, and approval of the System will be provided by the NREL Subcontract Administrator. On an annual basis, the Subcontractor shall review and update, for NREL's approval, its safety performance objectives, performance measures, and commitments consistent with and in response to NREL/DOE program and budget execution guidance and direction. Resources shall be identified and allocated to meet the safety objectives and performance commitments as well as maintain the integrity of the entire System. Accordingly, the System shall be integrated with the Subcontractor's business processes for work planning, budgeting, authorization, execution, and change control.
 - (f) The Subcontractor shall comply with, and assist NREL/DOE in complying with, ES&H requirements of all applicable laws and regulations, and applicable directives identified in the clause of NREL's Prime Contract entitled "Laws, Regulations, and DOE Directives." The Subcontractor shall cooperate with Federal and non-Federal agencies having jurisdiction over ES&H matters under this subcontract.
 - (g) The Subcontractor shall promptly evaluate and resolve any noncompliance with applicable ES&H requirements and the System. If the Subcontractor fails to provide resolution or, if at any time, the Subcontractor's acts or failure to act causes substantial harm or an imminent danger to the environment or health and safety of employees or the public, the NREL Subcontract Administrator may issue an order stopping work in whole or in part. Any stop work order issued by the NREL Subcontract Administrator under this clause (or issued by the Subcontractor to a lower-tier Subcontractor in accordance with paragraph (i) of this clause) shall be without prejudice to any other legal or contractual rights of NREL/Government. In the event that the NREL Subcontract Administrator issues a stop work order, an order authorizing the resumption of the work may be issued at the discretion of the NREL Subcontract Administrator. The Subcontractor shall not be entitled to an extension of time or additional fee or damages by reason of, or in connection with, any work stoppage ordered in accordance with this clause.
 - (h) Regardless of the performer of the work, the Subcontractor is responsible for compliance with the ES&H requirements applicable to this subcontract. The

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Subcontractor is responsible for flowing down the ES&H requirements applicable to this subcontract to subcontracts at any tier to the extent necessary to ensure the Subcontractor's compliance with the requirements.

- (i) The Subcontractor shall include a clause substantially the same as this clause in lower-tier subcontracts involving complex or hazardous work on site at an NREL operated facility or Government-owned or-leased properties. Such lower-tier subcontracts shall provide for the right to stop work under the conditions described in paragraph (g) of this clause. Depending on the complexity and hazards associated with the work, the Subcontractor may choose not to require the lower-tier Subcontractor to submit a Safety Management System for the Subcontractor's review and approval.

CLAUSE 65. SUSTAINABLE ACQUISITION PROGRAM (MAR 2011)

Derived from DEAR 970.5223-7 (OCT 2010)(FD)

(Applies to subcontracts or purchase orders for supplies or services that support operation of NREL, exceed \$150,000, and offer opportunities for the acquisition of energy efficient or environmentally sustainable supplies or services).

- (a) Pursuant to Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance, NREL is committed to managing its facilities in an environmentally preferable and sustainable manner that will promote the nature environment and protect the health and well being of its employees and Subcontractors. In the performance of providing products or services under this subcontract or purchase order, the Subcontractor shall provide products or services in a manner that promotes the natural environment, reduces greenhouse gas emissions and protects the health and well being of NREL employees, Subcontractor and visitors.
- (b) Green purchasing or sustainable acquisition has several interacting initiatives. The Subcontractor must comply with initiatives that are current as of the subcontract or purchase order award date. NREL may require compliance with revised initiatives from time to time. The initiatives important to these Executive Orders are explained on the following Government or Industry Internet Sites:
- (1) Recycled Content Products are described at <http://epa.gov/cpg>
 - (2) Biobased Products are described at <http://www.biopreferred.gov/>
 - (3) Energy efficient products are at <http://energystar.gov/products> for Energy Star products
 - (4) Energy efficient products are at <http://www.femp.energy.gov/procurement> for FEMP designated products
 - (5) Environmentally preferable and energy efficient electronics including desktop computers, laptops and monitors are at <http://www.epeat.net> the Electronic Products Environmental Assessment Tool (EPEAT) the Green Electronics Council site
 - (6) Greenhouse gas emission inventories are required, including Scope 3 emissions which include contractor emissions. These are discussed at Section 13 of Executive Order 13514 which can be found at <http://www.archives.gov/federal-register/executive-orders/disposition.html>
 - (7) Non-Ozone Depleting Alternative Products are at <http://www.epa.gov/ozone/strathome.html>
 - (8) Water efficient plumbing products are at <http://epa.gov/watersense>

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- The Subcontractor may request an equitable adjustment to the terms of its subcontract or purchase order using the procedures in the applicable Changes clause in the relevant Appendix B.
- (c) The clauses at FAR 52.223-2, Affirmative Procurement of Bio based Products under Service and Construction Contracts, 52.223-15, Energy Efficiency in Energy Consuming Products, and 52.223-17 Affirmative Procurement of EPA-Designated Items in Service and Construction Contracts, require the use of products that have bio based content, are energy efficient, or have recycled content. To the extent that the services provided by the Subcontractor require provision of any of the above types of products, the Subcontractor must provide the energy efficient and environmentally sustainable type of product unless that type of product—
- (1) Is not available;
 - (2) Is not life cycle cost effective (or does not exceed 110% of the price of alternative items if life cycle cost data is unavailable), EPEAT is an example of lifecycle costs that have been analyzed by DOE and found to be acceptable at the silver and gold level;
 - (3) Does not meet performance needs; or,
 - (4) Cannot be delivered in time to meet a critical need.
- (d) In the performance of this subcontract, the Subcontractor shall comply with the requirements of Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, (<http://www.epa.gov/greeningepa/practices/eo13423.htm>) and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance (<http://www.archives.gov/federal-register/executive-orders/disposition.html>). The Subcontractor shall also consider the best practices within the DOE Acquisition Guide, Chapter 23, Acquisition Considerations Regarding Federal Leadership in Environmental, Energy, and Economic Performance. This guide includes information concerning recycled content products, bio based products, energy efficient products, water efficient products, alternative fuels and vehicles, non-ozone depleting substances and other environmentally preferable products and services. This guide is available on the Internet at: <http://management.energy.gov/documents/AcqGuide23pt0Rev1.pdf>.
- (e) Reserved.
- (f) In complying with the requirements of paragraph (c) of this clause, the Subcontractor, working through the NREL Subcontract Administrator, shall coordinate its activities with and submit required reports to the NREL Sustainability Administrator.
- (g) The Subcontractor shall prepare and submit performance reports, if required, using prescribed NREL formats made available to the Subcontractor from the NREL Sustainability Administrator, on September 30 of the year of performance, on matters related to the acquisition of environmentally preferable and sustainable products and services. This is a material delivery under the subcontract or purchase order. Failure to perform this requirement may be considered a failure that endangers performance of this subcontract and may result in termination for default.
- (h) The Subcontractor will comply with the procedures in paragraphs (c) through (f) regarding the collection of all data necessary to generate the reports required under paragraphs (c) through (f), and submit the reports directly to the NREL Sustainability Administrator.
- The Subcontractor will advise the NREL Subcontract Administrator if it is unable to procure energy efficient and environmentally sustainable items and cite which of the reasons in paragraph (c) apply.

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The reports may be submitted at the conclusion of this subcontract or purchase order term provided that the delivery term is not multi-year in nature. If the delivery term is multi-year, the Subcontractor shall report its accomplishments for each fiscal year ending on September 30th in a manner and at a time or times acceptable to both parties. Failure to comply with these reporting requirements may be considered a breach of contract with attendant consequences.