



STATE OF UTAH - DEPARTMENT OF ADMINISTRATIVE SERVICES

Division of Facilities Construction and Management

DFCM

**Request for Proposals
for Design & Build**

SINGLE-STAGE COMPETITION

Value-Based Selection Method

September 1, 2015

**MULTIPLE SOLAR PHOTOVOLTAIC
FACILITIES
NORTH SALT LAKE READINESS CENTER
CEDAR CITY RECRUITMENT CENTER**

**UTAH NATIONAL GUARD
NORTH SALT LAKE/CEDAR CITY, UTAH**

DFCM Project No. 15329480/15330480

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Exhibit A: Site Identification, Preliminary Layout
Exhibit B: Installation Requirements & Material Specification
Exhibit C: Example Design/Build Contract

Attachment 1 – Exhibit A: UNG Sample Billing November 2014 – North Salt Lake Readiness Center
December 2014 – Cedar City Recruitment Center
Attachment 2 – Exhibit B: Diagram of Solar Production Metering
Attachment 3 – Exhibit C: Notes on Effective Grounding

Current copies of the DFCM General Conditions dated May 25, 2005, Design Manual, and all Supplemental General Conditions are available upon request at the DFCM office and on the DFCM web site at <http://dfcm.utah.gov> - “Standard Documents” – “Reference Documents” – “Supplemental General Conditions”, and are hereby made part of these contract documents by reference.

The Agreement and General Conditions dated May 25, 2005 have been updated from versions that were formally adopted and in use prior to this date. The changes made to the General Conditions are identified in a document entitled Revisions to General Conditions that is available on DFCM’s web site at <http://dfcm.utah.gov> (see <http://dfcm.utah.gov/2012-12-04-17-43-56.html>).

NOTICE TO DESIGN/BUILD TEAMS SINGLE-STAGE COMPETITION

The State of Utah - Division of Facilities Construction and Management (DFCM) intends to hire a Design/Build (D/B Team) for the following project:

MULTIPLE SOLAR PV FACILITIES

NORTH SALT LAKE READINESS CENTER & CEDAR CITY RECRUITMENT CENTER

UTAH NATIONAL GUARD-NORTH SALT LAKE/CEDAR CITY, UTAH

DFCM PROJECT NO. 15329480/15330480

This project includes design/build of an approximate 350 kW_{DC} solar photovoltaic (PV) parking canopy near the North Salt Lake Readiness Center, 1640 North 2200 West, Salt Lake City, Utah **AND** a 90 kW_{DC} parking canopy at the Cedar City Recruitment Center, 1060 North Airport Road, Cedar City, Utah.

This RFP is based on a value based selection method. DFCM is looking to select the team providing good economic value for both projects with investment grade design and material spec, while complying with all applicable design, permitting and code requirements.

The RFP documents will be available at 3:00 PM on Tuesday, September 1, 2015 on the DFCM web page at <http://dfcm.utah.gov> (under DFCM quick links / current projects). For questions regarding this project, please contact John Harrington, DFCM, at 801-652-2888. No others are to be contacted regarding this project.

There will be a **MANDATORY** Pre-Proposal Site Visit for all proposers that will be held on at 1:00 PM Tuesday, September 8, 2015, at the North Salt Lake Readiness Center. ***An **OPTIONAL** visit is offered at 11:30 AM on Wednesday, September 9, 2015 at the Cedar City Recruiting Center. All Teams wishing to submit on this project **MUST** at least attend the first meeting on Tuesday. Please make sure to mark down your own name and your Company name on the sign-in sheet, as well as any company names that are part of your team.

The Response Document to this RFP must be submitted to DFCM at 4110 State Office Building, Salt Lake City, Utah, by the dates and times shown in the Project Schedule.

The exhibits to RFP Project Nos. 15329480/15330480 cannot be warranted as correct. The information in the exhibits must be independently verified. The sizes and layouts in the RFP and its Exhibits, as stated are approximate and for informational purposes only. Vendors should use their own judgment in the design and layout of the solar system they are proposing.

Wages need not be 'prevailing wage'.

The Division of Facilities Construction & Management reserves the right to reject any or all proposals or to waive any formality or technicality in any proposal in the interest of the State.

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
Room 4110 State Office Building
Capitol Hill Complex
Salt Lake City, Utah 84114

DESCRIPTION OF WORK

The scope of work includes the design/build of an approximate 350 kW_{DC} solar photovoltaic facility on top of parking canopies near the Utah National Guard Readiness Center in North Salt Lake City. The size of the facility is limited by the annual consumption of the building.

A similar, smaller project is proposed for the Recruitment Center in Cedar City (90 kW_{DC}). Again, the size of this project is limited by the annual consumption at the building meter.

The project is funded 100% through the Utah National Guard (UNG) and managed by DFCM. There are no RMP “USIP” incentives for these projects at this time.

DFCM will require the successful proposer to provide the complete design and installation of both proposed solar electric systems.

The overall RFP objective is to build an aesthetically pleasing solar canopy, offering maximum shade to cars, as well as obtaining the best value in terms of DC-Watts installed, AC-equivalent and kWh output, while complying with all required material specifications, codes and legal requirements. The Proposer offering the strongest combination of these variables, with proven capabilities, will achieve the optimal score, as set out later in this RFP document.

The contractual requirements provided for in this RFP may be modified by reviews with the Utah Attorney General's Office. DFCM reserves the right to reject all proposals for any reason.

Wages need not be ‘prevailing wage’.

*****Project design/construction pending availability of funds.**

Objectives

DFCM seeks a Design/ Build Team for UNG-owned solar electric energy generation facilities described below, which may include high efficiency mono or polycrystalline silicon solar cells, preferably of U.S. warranty, with the overall objective to offset the highest possible electrical consumption at the buildings for a 25 year period, with a system warranty of at least 20 years and a system output of at least 80% of original design output in Year 25. A minimum 10 year workmanship warranty is required on all labor and materials.

Address	North Salt Lake Readiness Center, 1640 N 2200 W, SLC, UT 84116	Cedar City Recruitment Center, 1060 N Airport Rd, Cedar City, UT 84721
PV Solar Capacity	Parking Canopy: 350,000 W _{DC}	Parking Canopy: 90 kW _{DC}
Meter#	36071236	1052372
Account #	18493406-007 2	19100656-008 7
Rate Schedule	6b	6b
Annual Consumption	513,358	152,144

The engineering and permit review for the project is conducted by DFCM. Budget guidance for the review fee is the actual cost of inspections, with a structural review fee if applicable.

The overall objective of this project is for the selected vendor to develop and propose, for mutual agreement, the concept, final system design & engineering, system specifications, materials procurement, construction and installation of solar electric system at the location as described above.

Specific objectives that UNG/DFCM seeks to attain while pursuing these goals include the following:

- DUE TO THE NATURE OF THE FUNDING, THIS PROJECT NEEDS TO BE UNDER CONTRACT BY SEPTEMBER 30, 2015.
- As soon as possible, commence the development, design, procurement and installation of the solar electric system.
- The newly installed solar PV systems must be installed and generating electricity no later than **September 30, 2016**.
- Select and contract with a highly qualified solar system developer, with demonstrated experience in outstanding system design and quality installation.
- Performance guarantees, and warranty provisions for the inverters and solar modules will be part of the contract.
- A **minimum** ten year installation (workmanship) guarantee will be part of the contract.
- The solar production, as well as the building consumption, shall be measured via CT clamps and electronically measured, and connected to the SCADA system at both locations (North Salt Lake and Cedar City). Vendor shall subcontract with UNG approved integration company so that the solar production and building consumption can be integrated with the local StuxtureWare / iNet system that is used at each site. A diagram is included in the Exhibit B (Material Spec). A web based monitoring systems is 'nice to have' but not required.
- Apply for and facilitate the process of obtaining the net metering and interconnect agreement with the utility, while complying with all specifications related to these agreements.
- Add long-term economic value by employing thoughtful designs and materials that are of investment grade quality.
- UNG remain the beneficiary of the produced environmental attributes yielded from the constructed solar system, including carbon offsets, carbon credits, renewable energy credits, green tags or other climate/carbon offset entitlements.

In the construction & installation of the solar electric system, the selected solar proposer and its subcontractors must comply with pertinent State and Federal codes and laws as applicable, as well as obtain necessary bonding, as outlined in this RFP.

All solar projects will need to comply with the applicable version of the National Electric Code and the (2012) International Code Council family of codes and State of Utah amendments as approved by the Uniform Building Codes Commission (including the 2012 International Fire Code)¹. All work shall comply with the DFCM Standards of Work. Design professionals on the selected, qualified Design Build Teams are encouraged to contact the building official having jurisdiction, early in the design process. Final construction documents will need to be reviewed and approved for code compliance prior to construction. Construction change orders will generally need to be reviewed for code compliance prior to construction implementation.

¹ Please note that section 15.09.7 .2 of the 2012 IBC was deleted in the 2014 legislative session (effective for the Utah unified building code), meaning vendors are exempted from the fire classification of PV *systems* (under the testing regime of UL 2703) for systems permitted prior to July 1, 2016.

Deliverables

A. Develop Solar Energy Project Final Plans and Specifications: Upon the successful negotiation of the contract, the successful proposer shall develop final Solar Energy System project plans and specifications, which shall be subject to mutual agreement, regulatory plan check and design review by DFCM, and any other parties with local jurisdiction.

B. Design and Engineering: The design requires that the PV modules be installed according to the specifications outlined in the provided RFP Exhibits, and in a manner accepted by all parties specific to the final design(s), as developed and proposed by the selected vendor.

B.1. PV Module, Inverter and Balance of System - Component Specifications: The selected proposer shall install PV modules, inverters and all other components to meet the minimum standards outlined in the *Solar Electric Facility Installation Requirements, Exhibit B*.

In addition to requirements noted in the Exhibits, the proposed solar modules must have, at a minimum:

- 1) A 25-year power output performance warranty, with a minimum performance specification of 90% for the initial 10 years, and a progressive scale reaching no less than 80% for the remaining 15 years of the warranty. A linear rather than a stepped or tiered warranty is preferred.
- 2) The module warranty must be offered by a supplier (preferably) domiciled in the United States.
- 3) All modules shall be “investment grade”, factory-tested and certified to meet or exceed name plate power rating, with preference for “plus-sorting” to minimize module mismatch losses and name plate tolerance losses.

In addition to requirements noted in the Exhibits, the grid-tied solar inverters must have, at a minimum:

- 1) A minimum of 10-year nationwide warranty, with such warranty being “investment grade” and offered by a supplier domiciled in the United States
- 2) Weighted CEC Efficiency of not less than 96%

B.2 Solar Parking Canopy Spec: Some pertinent design specifications for the canopy are as follows:

1. Two (2#) electric vehicle charging stations are to be included
2. Motion sensor and light sensor LED lighting is to be included
3. Minimum clearances - 9' leading edge
4. Wiring Treatments: no visible wires, all wires to be in conduit
5. Metal to be Powder-Coated
6. Coating Color Preference (white)
7. Perimeter/Edge Trim Treatment – not required
8. Snow/ice melt drip control/mitigation – not required
9. Anti bird nesting, under sheeting, downspouts and gutters: not required

B.3 PV System Performance Monitoring: The solar system output (either via inverter or CT clamp output, as well as the individual building consumption (via CT clamp) shall be connected to the local building SCADA system for each location (hard wired, not wireless; see specification provided in Exhibit B, under ‘System Connectivity’). A web based monitoring system is optional.

C. Obtain Building and all other needed Permits: DFCM is the permitting authority for this project and the plan submittal will be electronic.

Vendors are advised that a net metering and interconnect application should be submitted to RMP as early on in the project as possible since this process has proven to be on the ‘critical path’. Please include provisions for effective grounding in your bid as this has proven to be a requirement most of the time.

D. Construct the Solar Electric System: The successful proposer shall furnish all labor, materials, permits, bonding, engineering/design (including all architectural and engineering drawings and specifications, as may be required), transportation, storage, and equipment rental costs to construct the entirety of the solar electric system, in accordance with the final approved plans and specifications. Construction shall include the complete installation and commissioning of the solar power system, a solar panel cleaning plan, Operations and Maintenance Plan and Manual, SCADA based monitoring system and include tie-ins to the existing utility electric service in accordance with the prevailing net metering and interconnection agreements with Rocky Mountain Power (RMP)/ PacifiCorp.

E. Obtain Intermediate and Final Inspections: The selected proposer shall arrange for all intermediate and final permit-required inspections, including those required by the electrical inspector(s), and all requisite documentation and inspections from RMP or the serving local electric utility, to permit proper connection of the PV system to the building’s electrical service, and to obtain the net metering benefits for UNG. Final inspection will also be performed by local authorities, as designated by UNG’s Project Manager.

F. Commissioning and Acceptance Testing: During the start-up, UNG and/or its designee shall observe and verify each system performance requirement. Required commissioning and acceptance test services shall include, but not be limited to:

1. Starting up the solar electric system until it achieves the mutually agreed performance requirements;
2. Conducting the successful delivery of power within thirty calendar days following the completion of the system, meeting each system requirement as designed.
3. Fulfilling any other noted requirement as specified by DFCM/UNG or other local authority or agency.

G. Maintenance and Operation Training of the System: The selected proposer shall provide on-site training to DFCM personnel for the operation and maintenance of the solar electric system. Prior to system start-up, the selected proposer shall supply to UNG two copies of all Component Product Data and Component Operation and Maintenance Manuals. Each Component type must have a separate component ID, a separate 3-ring binder of information, and must be labeled appropriately for content. Additionally, one (1) electronic copy, on suitable media, shall also be provided. Such electronic copy may be directly aggregated PDF files and or images scanned to PDF files and aggregated. The information must be sufficient for UNG to conduct the appropriate operation and maintenance for the life of the system, including Operation and Maintenance schedule, repair timelines, detailed O&M procedures, and performance assurance standards and guarantees. Examples of components include PV modules, inverter, racking, BOS, metering equipment, etc.

The selected proposer must submit to UNG as-built detail drawings for each constructed system, detailing the location of all above and underground utilities, and all components. Such drawings shall be submitted within thirty days of project start-up, and shall include a set of both electronic and hard copy as-built drawings in AutoCad-Autodesk format, unless otherwise approved by the UNG.

PROCUREMENT PROCESS

Procurement Process

Page No. 1

The State of Utah intends to enter into an agreement with a firm to provide Design/Build Services as described. The selection of the D/B Team will be made using a Value-Based Selection (VBS) system.

1. **Request for Proposals Documents for D/B Team**

The Request for Proposals (RFP) for Design/Build Services consists of all of the documents listed in the Table of Contents and all said documents are incorporated in this RFP by reference. The RFP will be available on the DFCM website as stated on the Project Schedule.

2. **Contact Information**

Except as authorized by the DFCM Representative or as otherwise stated in the RFP or the pre-proposal meeting, communication during the selection process shall be directed to the specified DFCM's Representative. In order to maintain the fair and equitable treatment of everyone, proposers shall not unduly contact or offer gifts or gratuities to DFCM, UNG, any officer, employee or agent of the State of Utah, users or selection committee members in an effort to influence the selection process or in a manner that gives the appearance of influencing the selection process. This prohibition applies before the RFP is issued as the project is developed, and extends through the award of a contract. Failure to comply with this requirement may result in a disqualification in the selection process. Proposers should be aware that selection committee members will be required to certify that they have not been contacted by any of the proposers in an attempt to influence the selection process.

3. **Requests for Information**

All requests for information regarding this project shall be in writing and directed to:

John Harrington - DFCM Energy Director
State of Utah
Division of Facilities Construction and Management
State Office Building Suite 4110
Capitol Hill Complex
Salt Lake City, Utah 84114-1160
E-mail: jharrington@utah.gov

4. **Project Schedule**

The Project Schedule lists the important events, dates, times and locations of meetings and submittals. The terms of the project schedule are hereby incorporated by reference and must be met by the selected team.

5. **Mandatory Pre-Proposal Meeting**

Mandatory pre-submittal site visits will be held on the date and times and at the locations listed on the Project Schedule. A representative from each interested respondent team is required to attend. During the meetings, a presentation will be made to describe the overall scope of work and intended schedule. Interested firms may ask questions and request clarification about the project and the procurement process. The answers to questions that were asked during the visits will be posted as an addendum on the DFCM website. Sub-consultants and subcontractors are invited to attend this meeting, but it is not mandatory for them. Respondent's absence from the pre-submittal meeting and/or failure to register precludes participation as a submitting firm on this project.

6. Submittal Due Dates and Times

All required submittals must be delivered to, and be received by DFCM prior to the date and time indicated in the Project Schedule. Submittals received after the specified time will not be accepted. If using a courier service, the D/B Team is responsible for ensuring that delivery will be made directly to the required location before the dead line. It is your responsibility to allow for the time needed to park on Capitol Hill.

7. Last Day to Submit Questions

All questions must be received at the office of DFCM no later than the time and dated listed in the Project Schedule. Questions must be submitted in writing to John Harrington at DFCM.

8. Response Document

The Response Document should, at the least contain the following:

- A cover sheet that includes the title of this RFP, Project Number, the name and address of the firm, the contact person and the contact person’s phone and e-mail.
- Statement of Qualifications
- Management Plan
- Design Proposal, including material selection (spec sheets, warranty details) and preliminary layout
- Cost Proposal
- Signature Page
- Termination and Debarment Statement

There is no prescribed page limit to the Response document but Proposers are encouraged to keep the Response Document as concise as possible. Five printed copies and two CDs of the Response Document are required.

9. Cost Proposal

- 1) Total cost for the project, with full specs of the system, stating what is included (such as the component warranty terms, performance guarantee and workmanship warranty)
- 2) Terms of the proposal

	kW_{DC} Installed	Estimated Annual kWh Output	Total Build Price
North Salt Lake Solar PV Parking Canopy 350kW _{DC}			
Cedar City PV Parking Canopy 90kW _{DC}			

Please note:

All Proposers are informed herewith and acknowledge by the submission of their bid proposal, that as a component of their project cost, the selected Proposer will be charged an administrative cost offset fee equivalent to \$0.09 per installed DC-Watt, and will be invoiced for such fee by DFCM promptly upon system commissioning.

Please show annual production estimates for a 25 year period.

10. Addenda

All responses to questions and requests for clarification will be in writing and issued as addenda to the Request for Proposals. The addenda will be posted on DFCM’s website <http://dfcm.utah.gov> (under DFCM quick links / current projects). It is the responsibility of the Respondent to check this web page from time to time, and to acknowledge receipt of any Addenda on the Cost Proposal Form Response.

11. Past Performance and References

If Proposer has completed project(s) for DFCM in the last five years, please identify the project(s) by name, number and DFCM project manager.

Each Team wishing to compete for this project, that has not completed at least three DFCM projects in the last five years, will be required to provide a list of references on *similar* projects for a total of **three** projects, providing at least the following information:

Point of Contact:	Person who will be able to answer any customer satisfaction questions.
Phone Number:	Phone number of the contact we will be surveying.
Agency Name:	Name of Company / Institution that purchased the solar system.
Project Identifier:	Name of the project.
Address:	Street, city and state where the work was performed.
Date Completed:	Date of when the work was completed.
Size:	Size of project kW _{DC} .
Type:	Type of the project (Roof/Ground Mount/Canopy/Other)

12. Statements of Qualifications

The Statement of Qualifications is a short document that addresses the selection criteria. It indicates the experience and qualifications of the Team, the project manager, the construction project manager, and other critical members of the team. It describes what talents their team brings to this project, how their knowledge of the subject will provide benefit to the process, how the team has been successful in the past and how that relates to this project. It should include information on similar projects completed by the Team. Include team member experience and special qualifications that are applicable to this project and/or are part of the project specific selection criteria.

13. Design Proposal and System Components

A preliminary layout drawing should be included in the proposal. When addressing system components please identify:

1. The canopy PV system lay-out detail, the proposed canopy structure supplier
2. The make, number and specifications of selected solar modules.
3. The make, number and sizing of the selected grid-tied solar electric (PV) inverters and its/their location.
4. Details regarding the monitoring and data collection provisions.
5. The PV module and other component warranties.
6. Identify Warranty Period of Proposer’s System and Workmanship. Identify the length of and provisions of any warranty(ies) provided by the Proposer for the installed components.

14. Management Plan

The Management Plan should demonstrate how the Team is organized, the role of team members, and how the team will work together to achieve the objectives of the project. It should identify decision making authority and point of contact.

The Management Plan should address in a general manner how the Team will accomplish the objectives of the project, mitigate the project risks identified by the Team, and address any other selection criteria not addressed elsewhere in the Team's submittals. It should include a preliminary project schedule indicating how the Team will accomplish the desired completion timeframe.

The Management Plan should be concise yet contain sufficient information for evaluation by the Selection Committee.

15. Time

Time is of the essence in regard to all the requirements of the contract documents. **This system is to be under contract no later than September 30, 2015.** Project implementation has to be completed by September 30, 2016.

16. Proposal Terms

The Proposer shall include information specific to the financial terms of this proposal.

Furthermore, the vendor proposal must include an acknowledgment that the Proposer has reviewed each of the attached Exhibits and shall specifically include an outline of any changes the Proposer believes necessary to the attached Exhibits.

17. Termination or Debarment Certifications

The general contractor and prime design firm of the Team must submit a certification that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from soliciting work by any governmental department (Federal or State) or UNG. These firms must also certify that neither the firm nor its principals have been terminated during the performance of a contract or withdrew from a contract to avoid termination. If the firm cannot certify these two statements, the firm shall submit a written explanation of the circumstances for review by DFCM. Teams are to submit these certifications with their Statement of Qualifications.

18. Selection Committee

The Selection Committee may be composed of individuals from DFCM and representatives from the design, construction and/or energy disciplines.

19. Interviews

Interviews will be conducted at the discretion of the DFCM selection committee. The interview evaluation will be made using the selection criteria noted below. The information provided by the past performance/references, Preliminary Management Plan, Price Proposal and Statement of Qualifications will be the basis for this evaluation. It will also provide an opportunity for the Selection Committee to seek clarification of the Team's proposal.

The method of presentation is at the discretion of the Team. The interviews will be held on the date and at the place specified in the Project Schedule.

20. Award of Contract

The selection of the Team will be made using the Value-Based Selection system (VBS). The award of the Contract shall be in accordance with the criteria set forth in the Request for Proposals (RFP). The State of Utah intends to enter into an agreement with the prime proposer to construct the project as outlined. Individual proposers or alliances between two or more proposers are allowed in this process. The State will contract with only one legal entity.

21. Contract Bond

The performance bonds shall be for an amount equal to one hundred percent (100%) of the contract sum for a one-year period and secured from a company that meets the requirements specified in the requisite forms. Subcontractors are not required to be bonded unless a specific requirement for such is included in the RFP documents.

22. Licensure

The D/B Team shall comply with and require all of its consultants, sub-consultants, and subcontractors to comply with the license laws as required by the State of Utah.

23. Financial Responsibility of Contractors and Subcontractors

Contractors shall respond promptly to any inquiry in writing by DFCM to any concern of financial responsibility of the contractor or subcontractor.

24. Withdrawal of Proposals

Proposals may be withdrawn on written request received from proposer until the notice of selection is issued.

25. Right to Reject Proposals

DFCM reserves the right to reject any or all proposals.

26. Administrative Cost Offset Fee Payment to DFCM

All Proposers are informed herewith and acknowledge by the submission of their bid proposal, that as a component of their project cost, the selected Proposer will account for an administrative cost offset fee equivalent to **\$0.09** per installed DC_Watt for both systems. Accordingly, upon project completion and commissioning, DFCM will invoice selected vendor for the cost offset fee, which invoice shall be paid within 30 days.

This administrative fee offsets DFCM's general project development, technical and RFP-related activity costs such as engineering, legal, design and finance reviews, proposer due diligence, proposer selection, project implementation management and inspections.

29. Selection Criteria

The following criteria will be used in arriving at the successful team. The requirements of the criteria are described in the previous sections. The criteria are not listed in any priority order. The Selection Committee will consider all criteria in performing a comprehensive evaluation of the proposal. The following criteria will be used in ranking each of the construction firms. The firm that is ranked the highest will represent the best value for the State. The selection committee will consider all criteria and determine how much weight to give to each item in performing a comprehensive evaluation of the proposal. Weights have been assigned to each criterion in the form of points.

- A. **Design Proposal. 25 POINTS.** (System Components, Warranty and Design) The D/B Team's design and materials used, and warranty terms, as presented in the drawings and specifications and as clarified in the interviews will be evaluated as to how well it meets the objectives of the project.
- B. **Schedule. 10 POINTS.** The proposer's schedule will be evaluated as to how well it meets the objectives of the project. Unless other objectives are stated the shorter the construction duration that is evaluated to be feasible while maintaining safety and quality in conformance with the construction documents is preferred. The proposer shall discuss during the interview the project schedule identifying major work items with start and stop dates that are realistic and critical subcontractors and if they have reviewed and agree to the schedule. The overall completion date shown on the schedule will be used in the contract as the contract completion date.
- C. **Past Performance Rating. 15 POINTS.** Each proposer will be given a past performance rating. The rating will be based first on how well the firm did on past projects with DFCM. If the DFCM past performance ratings are not available a rating will be supplemented by references submitted in the proposal.
- D. **Strength of Proposer's Team 15 POINTS** (Team Capabilities and Statement of Qualifications) Based on the statements of qualifications, the interview, and management plan, the selection team shall evaluate the expertise and experience of the construction firm the project manager and the superintendent as it relates to this project in size, complexity, quality and duration. Consideration will also be given to the portions of the project that the proposer will self perform and the strength brought to the team by critical (locally sourced) subcontractors including how they were selected and the success the proposer has had in working with them.

- E. **Project Management Approach. 10 POINTS.** Based on the information provided in the construction and management plan and information presented in the interview, the selection team shall evaluate how each team has planned the project and determined how to construct the project in the locations and in the time frame presented. The proposer should present how they plan to move material and people into and out of each site. Keep the sites safe; minimize disruption to the facilities, etc. The selection team will also evaluate the degree to which risks to the success of the project have been identified and a reasonable solution has been presented.
- F. **Cost. 25 POINTS.** (Proposer's offer and terms)
Up to three alternate price proposals may be submitted for this project. Please make sure in your bid that the two projects can be executed as 'stand-alone' projects.

TOTAL POSSIBLE POINTS: 100 POINTS.

**PROJECT SCHEDULE**

PROJECT NAME:		MULTIPLE SOLAR PV FACILITIES NORTH SALT LAKE READINESS CENTER/CEDAR CITY RECRUITING CENTER NORTH SALT LAKE/CEDAR CITY, UTAH UTAH NATIONAL GUARD		
DFCM PROJECT NO.		15329480/15330480		
Event	Day	Date	Time	Place
Request for Proposals Available	Tuesday	September 1, 2015	3:00 PM	DFCM web site *
Mandatory Pre-Proposal Site Meetings	Tuesday	September 8, 2015	1:00 PM	North Salt Lake Readiness Center 1640 North 2200 West Salt Lake City, Utah
Optional Pre-Proposal Site Meetings	Wednesday	September 9, 2015	11.30 AM	Cedar City Recruitment Center 1060 N Airport ROAD Cedar City, Utah
Last Day to Submit Questions	Friday	September 11, 2015	4:00 PM	John Harrington- DFCM E- mail: jharrington@utah.gov
Addendum Issued (exception for bid delay)	Monday	September 14, 2015	3:00 PM	DFCM web site *
Response Document	Thursday	September 17, 2015	12:00 NOON	DFCM 4110 State Office Bldg SLC, UT
Interviews	Tuesday	September 22, 2015	TBA	TBA
Announcement	Wednesday	September 23, 2015	4:00 PM	DFCM web site
Contract Execution	Wednesday	September 30, 2015		
Substantial Completion Date	Friday	September 30, 2016		

*** DFCM's web site address is <http://dfcm.utah.gov>.



Division of Facilities Construction and Management

COST PROPOSAL FORM

NAME OF PROPOSER _____ DATE _____

To the Division of Facilities Construction and Management
4110 State Office Building
Salt Lake City, Utah 84114

The undersigned, responsive to the "Notice to Design/Build Teams" and in accordance with the "Request for Proposals" for the MULTIPLE SOLAR PV FACILITIES - UTAH NATIONAL GUARD - NORTH SALT LAKE READINESS CENTER - NORTH SALT LAKE, UTAH - DFCM PROJECT NO. 15329480 AND CEDAR CITY RECRUITER CENTER - CEDAR CITY, UTAH - DFCM PROJECT NO. 15330480, and having examined the Contract Documents and the site(s) of the proposed Work and being familiar with all of the conditions surrounding the construction of the proposed Project(s), including the availability of labor, hereby proposes to design and construct solar photovoltaic arrays as required for the Work in accordance with the Contract Documents, within the time set forth, at the price stated below. This price is to cover all expenses incurred in performing the Work required under this RFP and the Contract Documents.

I/We acknowledge receipt of the following Addenda: _____

The Proposer is responsible for complying with all applicable Utah State Sales and Use Tax exemption requirements.

The Proposer is responsible for payment of all Utah State Sales and Use Tax obligations that arise from the Proposer's failure to comply with exemption requirements. We encourage Proposers to visit www.dsireusa.org for further information. Please note, that this website does not include all information needed to meet this requirement. Proposers must use due diligence in obtaining all information on tax requirements.

Table with 5 columns: kWDC, Annual Production (kWh), Total Build Price, Terms (warranties etc) (Use Separate Sheet if Required), and a blank column for location. Rows include North Salt Lake and Cedar City.

Summary table with 3 columns: COST, NORTH SALT LAKE, CEDAR CITY. Rows include Materials, Labor, and TOTAL.

I/We guarantee that the Work will be Substantially Complete by **September 30, 2016**, should I/we be the successful proposer.

This bid shall be good for 60 days after bid opening.

The undersigned Contractor's License Number for Utah is _____

Upon receipt of notice of award of this bid, the undersigned agrees to execute the contract within thirty (60) days, unless a shorter time is specified in the Contract Documents, and deliver acceptable Performance Bond in the prescribed form in the amount of 100% of the Contract Sum for faithful performance of the contract.

Type of Organization:

(Corporation, Partnership, Individual, etc.)

Any request and information related to Utah Preference Laws:

Respectfully submitted,

Name of Proposer

ADDRESS:

Authorized Signature

PERFORMANCE BOND
(Title 63, Chapter 56, U. C. A. 1953, as Amended)

That _____ hereinafter referred to as the "Principal" and _____, a corporation organized and existing under the laws of the State of _____, with its principal office in the City of _____ and authorized to transact business in this State and U. S. Department of the Treasury Listed (Circular 570, Companies Holding Certificates of Authority as Acceptable Securities on Federal Bonds and as Acceptable Reinsuring Companies); hereinafter referred to as the "Surety," are held and firmly bound unto the State of Utah, hereinafter referred to as the "Obligee, " in the amount of _____ DOLLARS (\$ _____) for the payment whereof, the said Principal and Surety bind themselves and their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written Contract with the Obligee, dated the _____ day of _____, 20____, to construct _____ in the County of _____, State of Utah, Project No. _____, for the approximate sum of _____ Dollars (\$ _____), which Contract is hereby incorporated by reference herein.

NOW, THEREFORE, the condition of this obligation is such that if the said Principal shall faithfully perform the Contract in accordance with the Contract Documents including, but not limited to, the Plans, Specifications and conditions thereof, the one year performance warranty, and the terms of the Contract as said Contract may be subject to Modifications or changes, then this obligation shall be void; otherwise it shall remain in full force and effect.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the state named herein or the heirs, executors, administrators or successors of the Owner.

The parties agree that the dispute provisions provided in the Contract Documents apply and shall constitute the sole dispute procedures of the parties.

PROVIDED, HOWEVER, that this Bond is executed pursuant to the Provisions of Title 63, Chapter 56, Utah Code Annotated, 1953, as amended, and all liabilities on this Bond shall be determined in accordance with said provisions to the same extent as if it were copied at length herein.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument this ____ day of _____, 20_____.

WITNESS OR ATTESTATION:

PRINCIPAL:

By: _____ (Seal)
Title: _____

WITNESS OR ATTESTATION:

SURETY:

By: _____ (Seal)
Attorney-in-Fact

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 20____, personally appeared before me _____, whose identity is personally known to me or proved to me on the basis of satisfactory evidence, and who, being by me duly sworn, did say that he/she is the Attorney in-fact of the above-named Surety Company and that he/she is duly authorized to execute the same and has complied in all respects with the laws of Utah in reference to becoming sole surety upon bonds, undertakings and obligations, and that he/she acknowledged to me that as Attorney-in-fact executed the same.

Subscribed and sworn to before me this _____ day of _____, 20_____.

My commission expires: _____
Resides at: _____

NOTARY PUBLIC

Agency: _____
Agent: _____
Address: _____
Phone: _____

Approved As To Form: May 25, 2005
By Alan S. Bachman, Asst Attorney General



STATE OF UTAH - DEPARTMENT OF ADMINISTRATIVE SERVICES

Division of Facilities Construction and Management

DFCM

EXHIBIT A

DFCM Project Nos. 15329480/15330480

SITE IDENTIFICATION AND PRELIMINARY LAY-OUT

Disclaimer

The intent of this exhibit is to estimate the potential solar power generation capacity of these projects and to give guidance to potential bidders with respect to the available space, the obstacles that may cause shading and electrical infrastructure.

This report is NOT intended to serve as a detailed engineering design document. It should be noted that detailed structural and electrical design is still a requirement and a full design package is expected for submittal to DFCM and the other permitting agencies (if applicable).

While the recommendations in this report have been reviewed for technical accuracy and are believed to be reasonably accurate, the findings are estimates and actual results may vary. As a result, BacGen is not liable if estimated production estimates are not actually achieved. All production and cost estimates in the report are for informational purposes, and are not to be construed as a design document or as guarantees.

The customer should independently evaluate any advice or direction provided in this exhibit. In no event will DFCM, BacGen or its associates be liable for the failure of the customer to achieve a specified electricity production, the operation of customer's facilities, or any incidental or consequential damages of any kind in connection with this exhibit or the installation of recommended projects.

Issue Date: September 1, 2015

Address	North Salt Lake Readiness Center, 1640 N 2200 W, SLC, UT 84116	Cedar City Recruitment Center, 1060 N Airport Rd, Cedar City, UT 84721
PV Solar Capacity	Parking Canopy: 350,000 W _{DC}	Parking Canopy: 90 kW _{DC}
Meter#	36071236	1052372
Account #	18493406-007 2	19100656-008 7
Rate Schedule	6b	6b
Annual Consumption	513,358 kWh	152,144 kWh

North Salt Lake



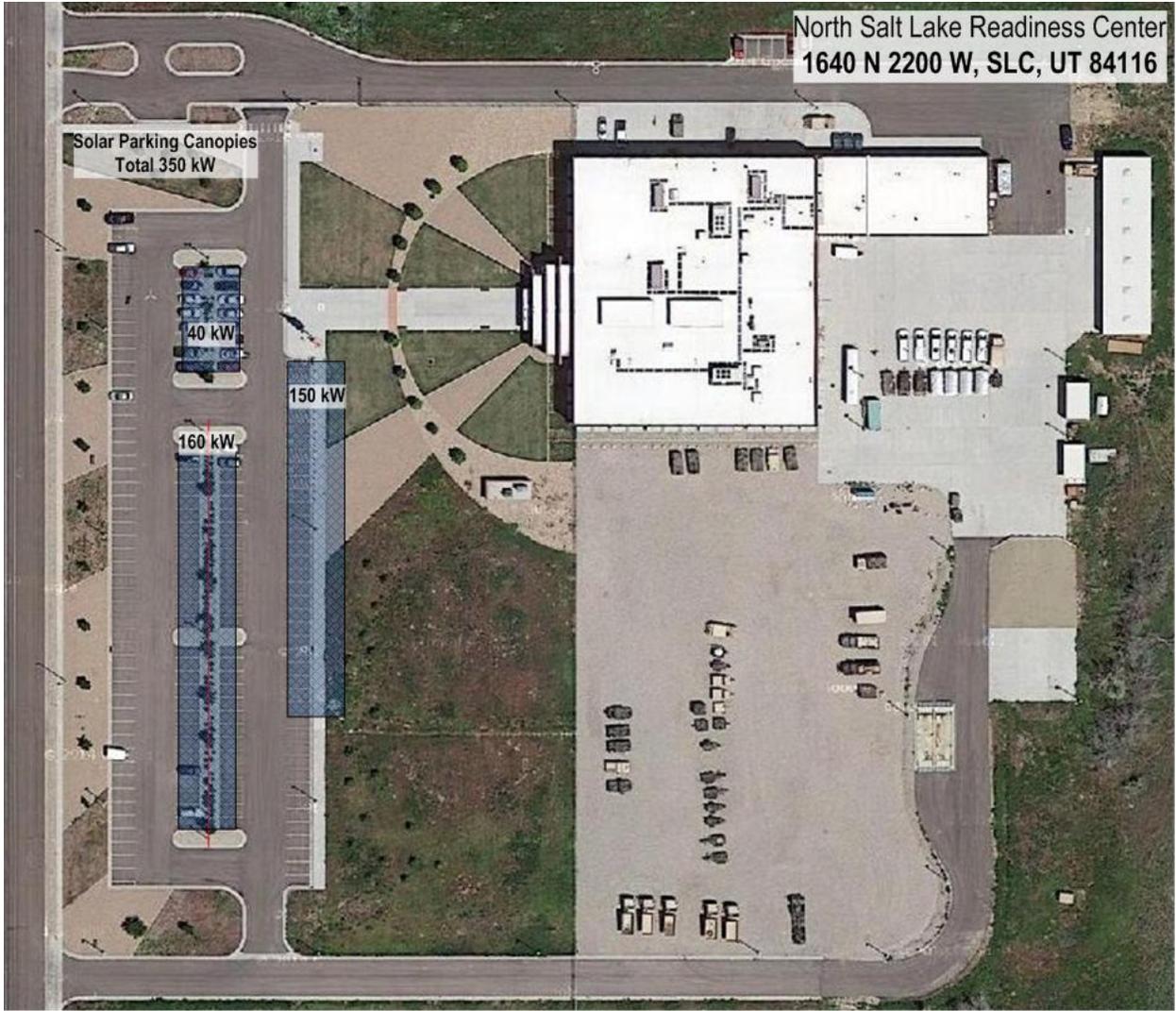


Figure 1 Example Solar Parking Layout for North Salt Lake Project



Figure 2 Aerial View of North Salt Lake Project Site



Figure 3 Roof View of Parking Canopy Area



Figure 4 Main Electrical Panel Labels



Figure 5 RMP Meter for North Salt Lake



Figure 6 Transformer and Main Switch Gear at North Salt Lake

Cedar City



Figure 7 Example Solar Parking Layout for Cedar City



STATE OF UTAH - DEPARTMENT OF ADMINISTRATIVE SERVICES

Division of Facilities Construction and Management

DFCM

EXHIBIT B

DFCM Project Nos. 15329480/15330480

SOLAR ELECTRIC FACILITY INSTALLATION REQUIREMENTS AND MATERIAL SPECIFICATION

Issue Date: September 1, 2015

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1.0 Purpose

This Solar Electric Installation Requirements document details the requirements and *minimum* criteria for a solar electric (“photovoltaic” or “PV”) system (“System”) installed by a solar electric facilities contractor, licensed in Utah, for the Division of Facilities Construction and Management (“DFCM”).

Where local code or contract specifications call for standards other than those incorporated herein, the standard deemed by local building official and or the authorized State of Utah contracting and code authorities to be the more rigorous, shall supersede.

The purpose of these installation requirements is to help promote the performance and longevity of systems installed on State or State affiliated buildings or landholdings, or that of its direct or indirect agencies. DFCM specifically reserves the right to require compliance with installation specifications that may exceed manufacturer or code requirements. Final design specifications, including any variations from the installation requirements called out herein, shall be mutually approved and receive prior written approval from the authorized DFCM agent(s).

2.0 System Requirements

2.1 General

2.1.1 System shall be grid-connected and installed on real property in Utah that receives electrical service directly from Rocky Mountain Power, a Local Electrical Utility recognized by the Utah Public Service Commission, or a mutually agreed provider.

2.1.2 System shall meet local utility interconnection and net metering requirements, as applicable.

2.1.3 The installation shall be of industry standard and workmanlike quality.

2.1.4 System should be designed for optimal annual performance, without sacrificing aesthetics, and design shall be mutually agreed. **See Section 2.5.**

2.1.5 System design shall be documented with a schematic diagram that accurately describes all electrical components to be installed and the wiring design. Diagram should include:

- Module series/parallel wiring
- Conductor and ground wire types and sizing
- Conduit types and sizing
- Voltage drop calculations
- AC breaker sizing

2.1.6 System shall be properly permitted, inspected, and in compliance with all applicable State of Utah building and electrical codes, including but not limited to those listed in the DFCM Design Standards.

2.1.7 System equipment installers shall be licensed according to the Utah Building Codes Division and shall be directly licensed, or working for a contractor that is licensed according to the Utah Construction and Contractors Board.

2.2 Materials

2.2.1 Materials used outdoors shall be sunlight/UV-resistant and listed for outdoor locations.

2.2.2 Materials used shall be designed to withstand the temperatures to which they are exposed.

- 2.2.3 Dissimilar metals that have galvanic action (such as aluminum and steel) shall be isolated from one another using industry standard practices (such as non-conductive shims, washers, or other methods).
- 2.2.4 Aluminum shall not be placed in direct contact with concrete materials.
- 2.2.5 Only stainless steel fasteners shall be used. The fasteners shall be coated with an anti-seize lubricant to prevent galling and allow for ease of removal during system maintenance or repair.
- 2.2.6 Structural members shall be either:
- High general corrosion resistance/SCC resistant aluminum, with characteristics suitable for marine environments. Clear anodizing is preferred.
 - Hot-dip galvanized steel per ASTM standard A123 equivalent or better.
 - Stainless steel (recommended for all environments).

2.3 Equipment and Installation

- 2.3.1 All installed system components shall be new.
- 2.3.2 All components shall be mounted securely.
- 2.3.3 All electrical equipment shall meet appropriate current electrical standards and shall be listed by a nationally recognized testing laboratory (e.g. UL, ETL).
- Inverters shall meet IEEE 929, 1374 and 1547 (listed to UL 1741) or their successor standards and shall have been certified by the [California Energy Commission](http://www.gosolarcalifornia.ca.gov/equipment/inverter.php) (<http://www.gosolarcalifornia.ca.gov/equipment/inverter.php>).
 - Photovoltaic modules shall meet IEEE 1262 (listed to UL 1703) or their successor standards and shall have been certified by the [California Energy Commission](http://www.gosolarcalifornia.ca.gov/equipment/pvmodule.html) (<http://www.gosolarcalifornia.ca.gov/equipment/pvmodule.html>).
- 2.3.4 Manufacturer warranties shall cover:
- Inverter for a minimum of 10 years against manufacturer's defects.
 - PV modules for a minimum of 20 years against degradation of performance below 80% of original output under standard test conditions
- 2.3.5 All electrical equipment shall be listed for the voltage and current ratings necessary for the application, reference 2011 NEC (NFPA 70) and 2009 IEC, or supercedents.
- 2.3.6 Equipment shall not be modified such that it voids the listing or manufacturer warranty.
- 2.3.7 All required over-current protection shall be included in the system and accessible for maintenance. The inspection or maintenance of combiner or feed through junction boxes shall not require the removal or displacement of modules or other obstructions.
- 2.3.8 A listed means of disconnection from all sources of power (both AC and DC) shall be provided such that inverter source and output circuits can be safely isolated for service or in an emergency. Disconnects shall be designed to be switched under load without an arcing hazard (e.g., blade-type or circuit breaker). Pull-out style disconnects shall not be used.
- 2.3.9 All electrical terminations shall be torqued to specification, secured, and strain-relieved as appropriate. Wire ends shall be coated with anti-corrosive compound prior to termination.
- 2.3.10 All cables, conduit, exposed conductors, and electrical boxes shall be secured and supported according to code requirements and in accordance with their performance ratings (i.e. NEMA).
- 2.3.11 Array equipment grounding conductors (EGC) and DC grounding electrode conductors (GEC) shall be copper and shall be either minimum 6 AWG or protected from physical damage and sized to conform to applicable Utah Electrical Codes, reference 2011 NEC (NFPA 70) and 2009 IEC, or supercedents:
- EGC shall be sized and protected according to applicable Utah code.
 - GEC shall be sized and protected according to applicable Utah code
 - If a single conductor is used for the EGC and GEC, conductor sizing and protection shall conform to all applicable Utah codes, or referenced codes. Contractor is responsible for identifying any additional code sections that may apply. For most applications, a 6 AWG conductor will be the minimum required to meet code.

2.3.12 Twist-on wire connectors shall not be used on DC conductors or ground wires. Instead, these wire connections shall be made using terminal strips in combiner boxes, feed through blocks in junction boxes, or other similar mechanical wire splicing devices. When outdoors or exposed to moisture, twist-on wire connectors used for AC connections shall be listed for usage in a damp/wet location.

2.3.13 Junction boxes and combiner boxes shall be listed and suitable for their environment and conditions of use.

2.3.14 Permanent labels shall be applied to system components as required by the applicable Utah Electrical Codes, or referenced codes.

2.3.15 Disconnect switch cover plates (not switch handles) shall be secured closed for safety (i.e. padlock, zip tie, etc.).

2.3.16 Micro-inverters, if used, shall be installed to meet the requirements of this document and all applicable codes, and shall:

- Include the installation of manufacturer-provided equipment that allows local monitoring of system performance and identification of inverter errors.
- Have appropriate AC disconnect switch at each inverter output circuit junction box to provide isolation for each string of inverters.

2.4 Array Mounting

- a) **Subject to project specific requirements**, which should be fully understood by installer, if the solar array will be roof-mounted, the roofing material shall have a minimum of 15 years of useful life remaining to ensure the roof will not need repair or replacement early in the System's operational life. Contractor shall be responsible for verification of roof condition and suitability, and if in question, evidence of this requirement may be met by providing either a copy of a recent roof inspection or a receipt showing the date of the most recent roof replacement.
- b) Vendor shall obtain a copy of the roof warranty and arrange for a roof inspection after project completion, and provide evidence that the roof warranty has been upheld.
- c) If roof-mounted, the roof system must be capable of handling the additional load of the System. Augmentation of the structure may be required by prevailing building codes.
- d) Subject to project specific requirements, the array racking and mounting systems shall be engineered and installed to meet local wind, snow and seismic load requirements.
- e) Unless specifically called out in project specifications, all roof penetrations shall be made watertight using roofing industry-standard methods of flashing that protect the warranty of the roof. Sealant compounds used shall be appropriate for the roofing material and application and shall not be the sole method of waterproofing.
- f) All mounting hardware shall be installed according to manufacturer specifications.

2.5 Solar Canopies

The following spec for a single cantilever parking canopies is given for guidance:

- a) Posts to be bedded in sonotube/concrete bollards to a depth that concurs with geotech /civil / structural engineering (min 24")
- b) Minimum clearances - 9' leading edge
- c) Wiring Treatments: no visible wires, all wires to be in conduit
- d) Metal to be Powder-Coated
- e) Coating Color Preference (white)
- f) Perimeter/Edge Trim Treatment – not required
- g) LED under lighting is required (motion and light sensors to be included)
- h) Snow/ice melt drip control/mitigation – not required
- i) Anti bird nesting, under sheeting, downspouts and gutters: not required

2.6 Solar Access

2.5.1 Solar resource shall be measured with an approved shading analysis tool from the point on the collector(s) where shading is most significant. Currently approved are reports generated from either the Pathfinder Site Analysis Tool Assistant Software, Solmetric SunEye Shading Analysis Tool, or the Wiley ASSET Solar Site Evaluation Tool. Other analysis tools may be approved from time to time or accepted by prior written approval for specific projects.

2.5.2 Total Solar Resource Fraction (“TSRF”) shall be 75% or greater at all points on the array.

2.5.3 It is recommended that the System be installed in as aesthetic a manner as is possible, and in a manner that blends well with the building architecture. System installation design and specifications shall be mutually approved by the authorized DFCM authority prior to submission for permits. Small trade-offs in system performance due to sub-optimal tilt and orientation may greatly enhance the aesthetics of the installation and thereby increase long term public support for solar.

2.7 Performance

2.7.1 Array shall be sized to operate within the current, voltage and power limits approved and warranted by the inverter manufacturer. The temperature-adjusted array voltage shall remain within the inverter limits at the historical record high and record low temperatures for the location where System will be installed. When calculating voltage at record high temperature, the appropriate adder from the table below shall be used. Systems on a roof that are tilted up 10° or more from the roof plane may be considered “Rack” mounted.

Temperature Adders for High Temperature Voltage Calculation - Array Mounting Temperature Adder

- Roof 35 °C
- Rack 30 °C
- Pole 25 °C

2.7.2 Wires shall be sized to keep voltage drop at or below 2% in the DC conductors from the array to the inverter, including the existing wire whips on the PV modules. Voltage drop will be calculated using temperature-adjusted V_{mp} (max power voltage) of the array for the location’s average high temperature.

2.7.3 Wires also shall be sized to keep voltage drop at or below 2% in the AC conductors from the inverter to the service panel to maintain the AC voltage within the inverter’s operating limits.

2.7.4 Aluminium wiring **is not acceptable**.

2.7.5 Voltage mismatch caused by partial shading of the array, different orientations of strings within the array and or by variations in module voltages, shall be minimized, allowing the inverter to operate within its maximum power point window.

2.8 Output Meter

A revenue grade net meter shall be installed, that complies with the requirements of the RMP net metering and interconnect agreement.

Solar production and building consumption shall be metered and connected to SCADA system at each location, as described under “Monitoring”.

3.0 Customer Manual and Maintenance Training

Upon completion of installation, installer/contractor shall provide the system owner with a manual (the “Customer Manual”) and fully instruct the owner on proper system operation and maintenance.

Training sessions should be provided at each solar system location so that production losses, through the years, are minimized. DFCM needs to allocate the appropriate staff hours for maintenance and operation of the solar systems; therefore, it is important that training concerning the O&M of these systems are approached in a systematic manner.

The Customer Manual shall provide accurate system documentation for the current system owner, as well as future owners and potential service personnel. The Customer Manual shall be bound in a durable and professional-looking binder, and shall contain, at minimum, three sections: 1) System Design and Operation, 2) Warranties and Installation Documentation, 3) Manuals and Data Sheets.

3.1 Section 1 — System Design and Operation

- System Overview Page

An overview page that summarizes the system’s operating conditions and provides emergency information.

- Operation & Maintenance Instructions

Installer’s written instructions for system start-up and shutdown procedures, troubleshooting guidelines and recommended routine maintenance schedule.

- Electrical As-Built Diagrams

Schematic diagram that accurately depicts all electrical components installed, plus main service panel and utility connection. Shall depict module series/parallel wiring, conductor and ground wire types and sizing, conduit types and sizing, and voltage drop calculations

- Mechanical Design

Description of array support structure, including engineering specifications of structural elements and manufacturer installation instructions. Provide drawings describing racking, pole mount or roof attachment methods systems.

3.2 Section 2 — Warranties and Installation Documentation

- Contractor Warranty

Installer’s 5-year minimum, full system warranty, covering labor and materials.

- Manufacturers’ Warranties

Written warranties and product registration instructions for PV modules and inverters.

- Permit(s)

Copy of approved electrical and, as applicable, building permits for the system installation.

- Utility Interconnection / Net Metering Agreement

Copy of the agreement between the utility customer and the utility.

3.3 Section 3 — Manuals and Data Sheets

- Parts and Source List

Bill of materials, listing all system components including part numbers. Inverter and module serial numbers should be recorded to facilitate replacement in the case of product recall or recovery in the case of theft.

- Inverter Owner’s Manual

Documentation from inverter manufacturer.

- Manufacturer Data Sheets for Major Components

Including but not limited to: inverters, PV modules, rack/mounting system, charge controller, batteries, disconnect switches, ground fault protection equipment, lightning arrestors, and combiner boxes.

Operation and maintenance instruction manuals shall have all required safety warnings and instructions clearly provided where applicable.

All parts of the User Manual are to be made available in paper copy as well as electronically.

4.0 Monitoring and Data Recording

Data shall be transmitted via hard wired data transmission to a server managed by the selected proposer or approved subcontractor. The selected proposer shall be responsible for data storage, management and display, and must submit its proposed display formats for approval by UTNG prior to installation. See attached block schematic of Solar Data SCADA integration

5.0 Utah Building Codes

Utah's building codes are mandatory statewide. Local jurisdictions may amend them but only with state approval.

Current and applicable codes and the authorities having jurisdiction (“AHJ”), including but not limited to the code types listed below, should be identified by Contractor prior to any design, engineering and or specification development.

- Code Type**
- Building/Dwelling Code
- Structural Code
- Plumbing Code
- Mechanical Code
- Electrical Code
- Fire/Life Safety Code
- Energy Code

Please note that section 15.09.7 .2 of the 2012 IBC was deleted in the 2014 legislative session (effective for the Utah unified building code), meaning vendors are exempted from the fire classification of PV systems (under the testing regime of UL 2703) for systems permitted prior to July 1, 2016.



STATE OF UTAH - DEPARTMENT OF ADMINISTRATIVE SERVICES

Division of Facilities Construction and Management

DFCM

EXHIBIT C

DFCM Project Nos. 15329480/15330480

(EXAMPLE OF)

DFCM AND DESIGN/BUILD TEAM AGREEMENT

Issue Date: September 1, 2015

DFCM AND DESIGN/BUILD TEAM AGREEMENT

THIS AGREEMENT made and entered into this _____ day of _____, 20____, by and between the DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT, hereinafter referred to as the "DFCM", and **(FILL IN DESIGN/BUILD FIRM)** _____, a corporation authorized to do business in the State of Utah and consisting of a legally recognized business entity in the State of Utah and general contracting/ construction management and architectural/engineering components, which are to be performed by **(FILL IN DESIGN/BUILD FIRM)** _____, or entities under contract with **(FILL IN DESIGN/BUILD FIRM)** _____, as appropriate. **(FILL IN DESIGN/ BUILD FIRM)** _____, shall hereinafter be referred to as "DESIGN/BUILD TEAM".

WITNESSETH: WHEREAS, DFCM intends to have Work performed at

WHEREAS, DESIGN/BUILD TEAM agrees to perform the Work for the sum stated herein.

NOW, THEREFORE, DFCM and DESIGN/BUILD TEAM for the consideration provided in this Agreement, agree as follows:

INTRODUCTION:

This Agreement is between DFCM and DESIGN/BUILD TEAM, consisting of the prime general contractor who shall also responsibly represent it's A/E's, architect's, engineer's, suppliers, consultants, subconsultants and subcontractors at any tier. There are designer and general contractor responsibilities identified in this Agreement. There are important documents incorporated by reference. While the DESIGN/BUILD TEAM maintains liability for all design and general contractor functions, the specific functions referred to in this Agreement as well as the documents incorporated by reference, shall be performed by the respective personnel of the DESIGN/ BUILD TEAM that are qualified architects/engineers and general contractors.

The identity of the leaders of the specific functions of the DESIGN/BUILD TEAM are attached to this Agreement, entitled Exhibit "A." and made a part of this Agreement. Said leadership shall not be changed or substituted without written approval of the DFCM.

ARTICLE 1. DOCUMENTS INCORPORATED BY REFERENCE AND GENERAL PROVISIONS

1.1 DOCUMENTS INCORPORATED BY REFERENCE:

1.1.1 **Request for Proposals and General Conditions.** The DESIGN/ BUILD TEAM and DFCM shall be bound by their respective obligations, duties and rights as referred to in the Request for Proposals identified as "Announcement of Design/Build Competition for the Design and Construction of the **(FILL IN TITLE OF RFP DOCUMENT)** _____, herein after identified as "Announcement of Design/Build Competition" and dated _____, inclusive of all addenda, as well as the DFCM General Conditions dated May 25, 2005 ("General Conditions") and the DFCM Supplemental General Conditions ("also referred to as the DFCM General Conditions"), (<http://dfcm.utah.gov/StdDocs/index.html>) and

on file with the Division of Facilities Construction and Management and by this reference incorporated herein. The Cost Proposal Form is hereby attached and made part of this agreement and is entitled Exhibit "B". It is intended that this DESIGN/BUILD TEAM's Agreement not reiterate all the applicable provisions of said Request for Proposals and the General Conditions and the fact that some provisions are reiterated herein does not lessen the importance of the provisions that are not so reiterated. Unless the context provides otherwise, all the definitions and interpretations of provisions of this DESIGN/BUILD TEAM's Agreement shall be as stated in said Announcement of Design Build Competition and the General Conditions. In case of conflict between the provisions of this DESIGN/BUILD TEAM's Agreement, the Announcement of Design/Build and the General Conditions, the following shall indicate which provision controls:

(1) This Agreement shall control over conflicting provisions in the Announcement of Design/Build Competition and/or General Conditions.

(2) The Announcement of Design/Build Competition shall control over conflicting provisions in the General Conditions.

Said General Conditions shall be construed in such a manner as that any reference to a right, responsibility, or duty of the General Contractor (Contractor) referred to in the General Conditions shall be deemed to refer to the DESIGN/BUILD TEAM. Any reference to A/E in the General Conditions shall be deemed to refer to the DESIGN/BUILD TEAM Architect/Engineer as applicable, and shall also be bound by the provisions in the General Conditions that refer to the duties and responsibilities of the A/E in the General Conditions. Unless otherwise specified by this Agreement, the definitions in the General Conditions shall apply to this Agreement.

1.1.2 **The Project Defined.** The Project is the total design and construction for which the DESIGN/BUILD TEAM is responsible, including all professional design services and all labor, materials and equipment used or incorporated in such design and construction for the project referenced by the Announcement of Design/Build Competition in Paragraph 1.1.1 above.

1.1.3 **The Work Defined.** The Work comprises the completed construction designed under the Project and includes labor necessary to produce such construction, and materials and equipment incorporated or to be incorporated in such construction.

1.2 EXECUTION, CORRELATION, CONTRACTUAL RELATIONSHIP AND INTENT

1.2.1 This Agreement shall be signed in not less than duplicate by the DFCM and DESIGN/ BUILD TEAM.

1.2.2 Nothing contained in this Agreement and the Contract Documents shall create a professional obligation or contractual relationship between the DFCM and any third party, including subcontractors, A/E's, consultants and suppliers at any tier of the DESIGN/BUILD TEAM. Notwithstanding this, it is understood and agreed that the DFCM is the intended third party beneficiary of all contracts for design or engineering services, all subcontracts, purchase orders and other agreements between the DESIGN/BUILD TEAM and third parties.

The DESIGN/BUILD TEAM shall incorporate the obligations of this Agreement into its respective subcontracts, supply agreements and purchase orders. The DESIGN/BUILD TEAM shall also be responsible to the DFCM for wrongful or negligent acts, errors or omissions of its A/E, consultants, subcontractors, suppliers, agents and employees or those in privity with the DESIGN/BUILD TEAM, at any tier.

1.3 **CONTRACT DOCUMENTS.** The Contract Documents consist of the General Conditions adopted by the Utah State Building Board on May 25, 2005; the current DFCM Design Manual on file with the office of DFCM; this Agreement; the Conditions of the Contract (General and Supplementary Conditions); and all competition documents provided by DFCM to DESIGN/BUILD TEAM and all competition documents provided

by DESIGN/BUILD TEAM to DFCM, which are identified in a list entitled Exhibit "C", hereby attached and made part of this Agreement. Clarifications to said proposal documents are hereby identified in Exhibit "D", which is hereby attached and made part of this Agreement. All such Contract Documents referred to in this Paragraph 1.3 are hereby incorporated by reference herein. Any reference in this Agreement to certain provisions of the Contract Documents shall in no way be construed as to lessen the importance or applicability of any other provisions of the Contract Documents.

1.4 CONTRACT DOCUMENTS COMPLIANCE, TERMS, INDEPENDENT CONTRACTOR. The Work to be performed shall be in accordance with all of the Contract Documents. All terms used in this Agreement shall be as defined in the Contract Documents, and in particular, the General Conditions, except as otherwise provided in this Agreement. The DESIGN/ BUILD TEAM Agrees to furnish labor, materials and equipment to complete the Work as required in the Contract Documents which are hereby incorporated by reference. It is understood and agreed by the parties hereto that all Work shall be performed as required in the Contract Documents and shall be subject to inspection and approval of DFCM or its authorized representative. The relationship of the DESIGN/BUILD TEAM to the DFCM hereunder is that of an independent contractor.

ARTICLE 2.
DESIGN/BUILD TEAM

2.1 RESPONSIBILITY ALLOCATION. The components of the Design Team shall have primary responsibilities as follows:

2.1.1 Design services shall be performed by the A/E of the DESIGN/BUILD TEAM as well as the appropriate consultants (engineers, etc) selected and paid by the DESIGN/BUILD TEAM and acting in the interest of the DESIGN/BUILD TEAM. As part of the proposal of DESIGN/ BUILD TEAM, **(FILL IN NAME OF DESIGN FIRM)** _____ has been selected as the A/E for the Project and is, or shall be promptly, under contract with the DESIGN/BUILD TEAM. DESIGN/BUILD TEAM shall notify DFCM of any substantial change in the composition of the A/E assigned to the Project, including but not limited to any major changes of staffing or assignments of architects to the Project. Any substantial change in the composition of the A/E must be approved by DFCM in writing. The identity of the leader of the specific functions of **(FILL IN NAME OF DESIGN FIRM)** _____ - is **(FILL IN NAME OF DESIGN FIRM REPRESENTATIVE)** _____, principal in charge of coordination of all design services. Said leadership shall not be changed or substituted without written approval of the DFCM.

2.1.2 Construction shall be performed in accordance with this Agreement and the Contract Documents by the qualified general contractor component of the DESIGN/BUILD TEAM as well as the appropriate subcontractors and suppliers at any tier in privity with the DESIGN/BUILD TEAM. Design Work shall be performed in accordance with this Agreement and the Contract Documents by the A/E component of the DESIGN/BUILD TEAM as well as the appropriate consultants at any tier in privity with the A/E.

2.1.3 The DESIGN/BUILD TEAM shall be responsible to the DFCM for wrongful or negligent acts, errors or omissions of the DESIGN/BUILD TEAM's employees and parties in privity of contract with the DESIGN/BUILD TEAM, at any tier, to perform any portion of the Work, including their agents and employees.

2.2 BASIC DESIGN SERVICES. The DESIGN/BUILD TEAM's Basic Design Services consist of those described below and any other services identified in this DESIGN/BUILD TEAM Agreement as part of Basic Services related to design, including normal structural, mechanical, electrical, and architectural as well as other consulting services reasonably necessary to fulfill the design duties and responsibilities under this Agreement and the Contract Documents. The DESIGN/BUILD TEAM shall prepare and promptly distribute minutes of all meetings. Said minutes shall not be considered official minutes until approved by the DFCM.

2.3 DESIGN DEVELOPMENT PHASE.

2.3.1 **Design Development Documents.** Based on the approved Design/Build Proposal, written authorization to proceed to Design Development signed by the DFCM, and any adjustments authorized by the DFCM in the program, or scope of work, schedule or construction budget, the DESIGN/BUILD TEAM shall prepare, for approval by the DFCM, Design Development Documents consisting of drawings and other documents to fix and describe the size and character of the Project as to architectural, structural, mechanical and electrical systems, materials and such other elements as may be appropriate. The Design Development Documents shall include the items listed in the Design Development Phase Checklist of the DFCM Design Manual incorporated by reference into this Agreement.

2.3.2 **Design Revisions.** The DFCM reserves the right to request minor design revisions and the DESIGN/BUILD TEAM shall promptly perform such revisions with no increase in cost beyond the Guaranteed Fixed Costs for all the Work of this Project.

2.4 CONSTRUCTION DOCUMENTS PHASE.

2.4.1 **Construction Documents.** Based on the approved Design Development Documents, and written authorization to proceed to the Construction Documents Phase signed by the DFCM, and any further adjustments in the scope or quality of the Project or in the construction budget authorized by the DFCM, the DESIGN/BUILD TEAM shall prepare, for approval by the DFCM, Construction Documents consisting of Drawings and Specifications setting forth in detail the requirements for the construction of the Project. The Construction Documents shall include the items listed in the Contract Document Phase Checklist of the DFCM Design Manual incorporated by reference into this Agreement.

2.4.2 **Market Changes.** It is understood that the DESIGN/BUILD TEAM assumes the risk and cost of market changes with respect to the DESIGN/BUILD TEAM's scope of work. In the event any supplier under a Purchase Agreement with the State of Utah fails to perform according to the terms of his agreement, the DESIGN/BUILD TEAM will be entitled to an equitable adjustment of the contract price and time. The DESIGN/BUILD TEAM will use its best efforts in managing those suppliers to maintain the project schedule.

2.4.3 **Assist With Filing For Governmental Approval.** When requested by the DFCM, the DESIGN/BUILD TEAM shall assist the DFCM in all reasonable requests in connection with the DFCM's responsibility for filing documents required for approval of governmental authorities having jurisdiction over the Project.

2.5 BIDDING OR NEGOTIATION PHASE.

2.5.1 **Duties; In General.** After receipt of the written authorization to proceed to the Bidding or Negotiation Phase by DFCM, the DESIGN/BUILD TEAM shall obtain bids or negotiate proposals and award contracts to subcontractors, subconsultants and suppliers which are consistent with the Design/Build Agreement. The term "bid" in the Agreement is also meant to mean "proposal" where the DESIGN/BUILD TEAM is using a request for proposal procurement process.

(1) The DESIGN/BUILD TEAM shall promptly supply ten (10) complete sets of Final Construction Documents to DFCM.

(2) **Specified Subcontractors:** The specifically cited subcontractors, along with their license number (if required) and estimated cost, have been listed as a submission with the DESIGN/ BUILD TEAM cost proposal. Any substantial variation from the original estimate, submitted on (**FILL IN DATE PROPOSAL WAS SUBMITTED**) _____ as part of the Cost Proposal, shall be accompanied by a written explanation from

the Contractor justifying the variation and describing how the variation meets or exceeds the “value” to the DFCM on the project.

(3) **Non-Specified Subcontractors:** The non-specified subcontractor’s scope of work and estimated costs shall be listed as a submission with the DESIGN/BUILD TEAM cost proposal. Within 24 hours after the Contractor “opens” the non-specified subcontractors bid and if the bid is from a subcontractor that would otherwise be required to be part of a sublist under UCA 63-5a-208 if the procurement was performed directly by DFCM in bidding process, the DESIGN/BUILD TEAM shall submit name of the subcontractor along with their license number (if required) and estimated cost to DFCM. During the competitive bid process by the DESIGN/BUILD TEAM for these subcontractors, DFCM shall have a representative at the bid opening and subcontractor’s selection.

(4) The DESIGN/BUILD TEAM shall at all reasonable times be available personally, or have available, a responsible member of his or her staff to make such interpretations of the Contract Documents as are necessary to facilitate completion of the construction contract by the DESIGN/BUILD TEAM’s subcontractors and suppliers.

(5) If subcontractor’s are selected through a proposal process and the DESIGN/ BUILD TEAM fails to comply with the sublist requirements of UCA 63-5a-208 for bids made applicable in this Agreement to proposals, the DESIGN/BUILD TEAM shall have 24 hours to cure such failure after receiving written notice from DFCM.

2.6 CONSTRUCTION PHASE-ADMINISTRATION OF THE CONSTRUCTION.

2.6.1 **Advise And Consult.** The DESIGN/BUILD TEAM shall advise and consult with the DFCM during the Construction Phase. No one shall be entitled to rely upon any representation by the DESIGN/BUILD TEAM unless it is in writing and signed by the DESIGN/BUILD TEAM Project Manager or a principal of the DESIGN/BUILD TEAM.

2.6.2 **Representations by Third Parties, and Officials, Other Than DFCM.** DESIGN/ BUILD TEAM may not rely on any representations of other state agencies, officials or any third parties unless specifically approved in writing by DFCM.

2.6.3 **Record Copy at Site.** The DESIGN/BUILD TEAM shall maintain in good order at the site one record copy of the drawings, specifications, product data, samples, shop drawings, Change Orders and other Modifications, marked currently to record changes made during construction. At the conclusion of the Construction Phase the DESIGN/BUILD TEAM shall prepare and furnish to the DFCM a complete set of Record Drawings (corrected original tracings or re-plotted CADD drawings), one set of mylar reproducible Record Drawings and two (2) sets of Specifications depicting the Project.

CADD Criteria. The “DFCM CADD Criteria” which is a part of the Design Manual shall be reviewed by the A/E and shall be used to define and/or supplement any terms or responsibilities under this Agreement. The DFCM CADD Criteria in the Design Manual in case of conflict, shall supersede any provision of this Agreement.

2.7 ADDITIONAL SERVICES: IN GENERAL.

2.7.1 **Written Authorization Required.** The DESIGN/BUILD TEAM shall perform all duties and responsibilities required by this Agreement and the Contract Documents for the Guaranteed Fixed Price. If the DESIGN/BUILD TEAM reasonably believes that a particular duty or responsibility is beyond that identified by this Agreement or the Contract Documents, then the DESIGN/ BUILD TEAM shall not be entitled to any amount which would result in an increase in the Guaranteed Fixed Price unless, prior to performing the subject duty or

responsibility, the DESIGN/BUILD TEAM has requested in writing a Modification to this Agreement and the Modification has been approved, in writing, by DFCM. The provisions of the General Conditions regarding Modifications, requests for additional time and additional monies shall apply to this Agreement.

2.7.2 When Not Paid by DFCM. Notwithstanding anything to the contrary in this Agreement, DFCM shall not be responsible to pay and the DESIGN/BUILD TEAM shall not be entitled to receive, compensation for any Contingent Additional Services if such services were required due to the fault of the DESIGN/BUILD TEAM or the DESIGN/BUILD TEAM's failure to perform in accordance with the terms of this Agreement. Notwithstanding this, there shall be no right to payment for additional services or contingent additional services if such services are not approved in advance by DFCM in writing.

2.8 STANDARD FOR PERFORMANCE.

2.8.1 Due Care and Diligence; In General. DESIGN/BUILD TEAM shall exercise the degree of skill and diligence as exercised by members of the DESIGN BUILD TEAM'S profession having substantial experience on projects similar in type, magnitude and complexity to the Project that is the subject of this Agreement and all of the services under this Agreement shall be performed as expeditiously as is consistent with said standards. The DESIGN/BUILD TEAM shall be liable to the Owner for claims, liabilities, additional burdens, penalties, damages or third party claims, to the extent caused by wrongful or negligent acts, errors or omissions that do not meet this standard of care.

2.8.2 Due Care and Diligence; Discovering and Reporting Defects and Deficiencies. The DESIGN/BUILD TEAM shall exercise due care and diligence in discovering and promptly reporting to the DFCM any defects or deficiencies in the Work. Any defective Designs or Specifications furnished by the DESIGN/BUILD TEAM shall be promptly corrected by the DESIGN/ BUILD TEAM at no cost to the DFCM, and the DESIGN/BUILD TEAM shall promptly reimburse the DFCM for all damages, if any, resulting from the use of such defective Designs or Specifications. The DFCM's approval, acceptance, use of or payment for all or any part of the DESIGN/ BUILD TEAM'S services hereunder or of the Project itself shall in no way alter the DESIGN/BUILD TEAM'S obligations or the DFCM's rights hereunder.

2.9 TESTS, INSPECTIONS AND REPORTS.

2.9.1 DFCM shall be responsible for all structural (soils and concrete), mechanical, electrical testing required by law or code. It shall be DESIGN/BUILD TEAM's responsibility to determine when, which, and to the extent that such tests, inspections and reports are required by the Contract Documents. The DFCM may review and comment, when appropriate, on the accuracy of the tests and information furnished by the DESIGN/BUILD TEAM pursuant to this Paragraph 2.9.1. The DFCM will be monitoring tests and inspections for the subject work. The DESIGN/BUILD TEAM shall coordinate all test and inspections with the DFCM. All other tests or inspections required by contract documents shall be furnished at the DESIGN/BUILD TEAM's expense.

2.9.2 The DFCM shall be responsible for all chemical, air and water pollution tests, tests for hazardous material, and other laboratory and environmental tests, inspections and reports, including those required by law or the Contract Documents. It shall be DFCM's responsibility to determine when, which, and to the extent that such tests, inspections and reports are required by the Contract Documents. The DFCM may review and comment, when appropriate, on the accuracy of the tests and information furnished by the DESIGN/BUILD TEAM pursuant to this Paragraph 2.9.2. The services, information, surveys and reports required by this Paragraph 2.9.2 shall be furnished at the DFCM's expense. The DFCM will be monitoring tests and inspections for the subject work. The DESIGN/BUILD TEAM shall coordinate all test and inspections with the DFCM.

ARTICLE 3. DFCM'S RESPONSIBILITIES

3.1 INFORMATION. The DFCM shall provide full information regarding requirements for the Project, including a program or scope of work which shall set forth the DFCM's objectives, schedule, constraints, and criteria, including space requirements and relationships, flexibility, expandability, special equipment, systems and site requirements.

3.2 RESPONSE TO DESIGN/BUILD TEAM. The DFCM shall give reasonable consideration to all sketches, estimates, working drawings, specifications, proposals, and other documents presented by the DESIGN/BUILD TEAM; and to inform the DESIGN/BUILD TEAM of the decisions, in writing, within a fourteen (14) day time period.

3.3 DFCM PROJECT MANAGER. The DFCM shall designate a DFCM Project Manager authorized to act on the DFCM's behalf with respect to the Project. The DFCM or such Project Manager shall render decisions within a fourteen (14) day time period pertaining to documents submitted by the DESIGN/BUILD TEAM in order to avoid unreasonable delay in the orderly and sequential progress of the DESIGN/BUILD TEAM's services and Work. The DFCM may appoint an on-site project representative to observe the Work and to have such other responsibilities as the DFCM deems necessary to facilitate this Agreement.

3.4 COMMUNICATIONS. DFCM shall communicate with subcontractors at any tier and material suppliers of the DESIGN/BUILD TEAM only through the DESIGN/BUILD TEAM. DESIGN/BUILD TEAM shall communicate to DFCM directly and not through the User or any other governmental agency. DESIGN/BUILD TEAM shall not rely on any comments or writings of User without express consent in writing of DFCM.

ARTICLE 4. **TIME**

4.1 DESIGN FUNCTION SCHEDULE. Time limits provided by the RFP shall not be exceeded by the DESIGN/BUILD TEAM or DFCM. Any extensions of time from the schedule shall be void and of no force and effect until such adjustments are agreed to in writing by the DFCM and DESIGN/BUILD TEAM.

4.2 CONSTRUCTION FUNCTION SCHEDULE. TIME OF COMPLETION OF CONSTRUCTION WORK AND DELAY REMEDY. The Construction Work shall be Substantially Complete by (FILL IN COMPLETION DATE) _____. DESIGN/BUILD TEAM agrees to pay liquidated damages in the amount of \$ _____ per day for each day after expiration of the Contract Time until the DESIGN/BUILD TEAM achieves Substantial Completion in accordance with the Contract Documents, if the DESIGN/BUILD TEAM's delay makes the damages applicable. The provision for liquidated damages is: (a) to compensate the DFCM for delay only; (b) is provided for herein because actual damages can not be readily ascertained at the time of execution of this Design/Build Agreement; (c) is not a penalty; and (d) shall not prevent the DFCM from maintaining Claims for other non-delay damages, such as costs to complete or remedy defective Work.

No PRE, Claim or action shall be maintained by the DESIGN/BUILD TEAM or Subcontractor or material supplier of DESIGN/BUILD TEAM at any tier, against the DFCM for damages or other claims due to losses attributable to hindrances or delays from any cause whatsoever, including acts and omissions of the DFCM or its officers, employees or agents, except as expressly provided in the General Conditions, including procedural, timing and substantive provisions of the General Conditions.

ARTICLE 5. **PAYMENTS**

5.1 COMPENSATION. The DFCM shall compensate the DESIGN/BUILD TEAM for work properly performed in accordance with the Contract Documents after the DFCM's receipt and approval of the DESIGN/BUILD TEAM's detailed monthly statement and any lien waivers or releases previously requested by DFCM.

5.1.1 **Guaranteed Fixed Contract Amount.** The DFCM agrees to pay and the DESIGN/BUILD TEAM agrees to accept in full performance of the design work and the construction Work under this DESIGN/BUILD TEAM's Agreement, not more than the sum of **(FILL IN CONTRACT AMOUNT)** _____ DOLLARS AND NO CENTS (\$_____.00) which sum is the proposal amount submitted on _____ and which sum shall be the guaranteed fixed contract amount. Payment to the DESIGN/BUILD TEAM will be made within thirty (30) calendar days of receipt of payment application by DFCM.

The DESIGN/BUILD TEAM shall provide DFCM within thirty (30) days of request by DFCM, a schedule of accounts and budgets for Work which will be used as a basis for applications for payment. The DFCM agrees to pay the DESIGN/BUILD TEAM for the construction Work and the design services from time to time as the Work progresses, but not more than once each month after the date of Notice to Proceed, and only upon Certificate of the A/E as approved by DFCM which approval may not be unreasonably withheld, for Work performed during the preceding calendar month, ninety-five percent (95%) of the value of the labor performed and ninety-five percent (95%) of the value of materials furnished in place or on the site. The DESIGN/BUILD TEAM agrees to furnish to the DFCM invoices for materials purchased and on the site but not installed, for which the DESIGN/BUILDER requests payment and agrees to safeguard and protect such equipment or materials and is responsible for the safekeeping thereof and if such be stolen, lost or destroyed, to replace same.

Such evidence of labor performed and materials furnished as the DFCM may reasonably require shall be supplied by the DESIGN/BUILD TEAM at the time of request for Certificate of Payment on account. Materials for which payment has been made cannot be removed from the job site without DFCM's written approval. Five percent (5%) of the earned amount shall be retained from each monthly payment. Additional retainage shall be imposed if, in the written opinion of the Director of the Division of Facilities Construction and Management, special circumstances or considerations justify the imposition of additional retainage in the interest of the State.

5.1.2 **DESIGN/BUILD TEAM Expenses.** The guaranteed fixed contract amount shall include all expenses of the DESIGN/BUILD TEAM, including travel, lodging, per diem and other costs associated with the performance of the duties and work under this Agreement.

5.2 DESIGN/BUILD TEAM'S ACCOUNTING RECORDS. All Accounting Records shall be available to the DFCM or the DFCM's authorized representative at mutually convenient times.

ARTICLE 6. **CHANGES IN THE WORK**

6.1 ADDITIONAL WORK. It is understood and agreed by the parties hereto that no money will be paid to the DESIGN/BUILD TEAM for additional labor or materials furnished unless a new contract in writing or a Modification hereof in accordance with the General Conditions and Contract Documents for such additional labor or materials has been executed. The DFCM specifically reserves the right to modify or amend this Agreement and the total sum due hereunder either by enlarging or restricting the scope of the Work.

Modifications shall be issued in accordance with the General Conditions. No action, conduct, omission, prior failure or course of dealing by the DFCM shall act to waive, modify, change, or alter this requirement. Written modifications are the exclusive method for effecting any change to the contract sum or contract time. The DESIGN/BUILD TEAM understands and agrees that the contract sum and contract time cannot be changed by implication, oral agreements, actions, inactions, course of conduct or contractor initiated change order.

ARTICLE 7. **INSURANCE, BONDS AND INDEMNIFICATION**

7.1 IN GENERAL. To protect against liability, loss and/or expense arising in connection with the

performance of services described under this DESIGN/BUILD TEAM's Agreement, the DESIGN/BUILD TEAM shall obtain and maintain in force during the entire period of this DESIGN/BUILD TEAM's Agreement, at its own expense, the following insurance from insurance companies authorized to do business in the State of Utah and rated "A" or better with a financial size category of Class X or larger. An exception to the above-stated rating and financial size category requirements is for the professional liability insurance referred to in 7.2.1(1) below, in which case the rating must be "B" or better with a financial size category of Class VIII or larger. All said ratings and financial size categories shall be as published by A.M. Best Company at the time this DESIGN/BUILD TEAM's Agreement is executed.

7.2 DESIGN/BUILD TEAM INSURANCE. Insurance for the general construction management and architectural components of the DESIGN/BUILD TEAM shall be provided as required below:

7.2.1 General Contractor's Insurance. In addition to the insurance required in Section 7.4 below, the DESIGN/BUILD TEAM shall meet all the insurance requirements for a General Contractors as required by the General Conditions.

7.3 GENERAL CONTRACTOR'S BONDS. In addition to the insurance required above, the bonds for the General Contractor functions under this Agreement shall be provided as required by the General Conditions. The 100% performance and payment bonds may exclude the amount attributable to design services as agreed to by DFCM. The performance and payment bonds must be in effect and provided to DFCM on the standard DFCM forms prior to the issuance of a notice to proceed for the actual construction work.

7.4 DESIGN INSURANCE. In addition to the insurance required above, the following insurance for the design services under this Agreement shall be provided:

7.4.1 DESIGN/BUILD TEAM Designer's Professional Liability Insurance. The DESIGN/ BUILD TEAM shall maintain a professional liability insurance policy on a claims made basis, annual aggregate policy limit based on the following chart, unless modified in an attachment to this Agreement.

Construction Budget	Minimum Liability Coverage
\$50,000,000 and above	\$2,000,000 per claim, \$4,000,000 aggregate
\$25,000,000 and above, but under \$50,000,000	\$2,000,000 per claim, \$2,000,000 aggregate
\$1,500,000 and above but under \$25,000,000	\$1,000,000 per claim, \$1,000,000 aggregate
Under \$1,500,000	\$ 500,000 per claim, \$ 500,000 aggregate

7.4.2 Valuable papers and Records Coverage and/or Electronic Data Processing (Data and Media) Coverage. The DESIGN/BUILD TEAM and all engineering consultants of the DESIGN/BUILD TEAM shall provide coverage for the physical loss of or destruction to their work product including drawings, specifications and electronic data and media.

7.5 ADDITIONAL COVERAGE. The DFCM reserves the right to require additional coverage from that stated hereinabove, at the DFCM's expense for the additional coverage portion only. DFCM also reserves the right to require project specific insurance, and if such right has been exercised it shall be indicated as an exhibit to this DESIGN/BUILD TEAM's Agreement. Unless project specific insurance is required by the DFCM, the coverage may be written under a practice policy with limits applicable to all projects undertaken by the firm but must be maintained in force for the discovery of claims for a period of three (3) years after the date final payment is made to the DESIGN/BUILD TEAM under this DESIGN/ BUILD TEAM's Agreement. All policies provided by the DESIGN/BUILD TEAM must contain a "retroactive" or "prior-acts" date which precedes the earlier of, the date of

the DESIGN/BUILD TEAM's Agreement or the commencement of the DESIGN/BUILD TEAM's services. The DESIGN/BUILD TEAM's policy must also include a contractual liability endorsement applicable to the indemnity provision contained under this Article of this DESIGN/ BUILD TEAM's Agreement. Any review and approval by the DFCM does not relieve the DESIGN/BUILD TEAM of any responsibility of liability for an error, omission, submittal or work.

7.6 FURNISH EVIDENCE OF INSURANCE, CERTIFICATES, ADDITIONAL INSURED. The DESIGN/BUILD TEAM shall submit certificates in form and substance satisfactory to the DFCM as evidence of the insurance requirements of this Article. Such certificates shall provide the DFCM with thirty (30) days notice prior to the cancellation, material change or non-renewal of the applicable coverage, as evidenced by return receipt, certified mail, sent to DFCM. The DESIGN/BUILD TEAM shall notify DFCM within thirty (30) days of any claim(s) against the DESIGN/BUILD TEAM which singly or in the aggregate exceed 20% of the applicable required insured limits, and the DFCM may require the DESIGN/BUILD TEAM to reinstate the policy to provide full protection at the original limits.

The State of Utah shall be named as an insured party, as primary coverage and not contributing, on all the insurance policies required by this Article except the professional liability and workers' compensation policies. The DFCM reserves the right to request the DESIGN/BUILD TEAM to provide a loss report from their insurance carrier.

7.7 DFCM RECOURSE. The DESIGN/BUILD TEAM agrees to maintain the insurance described in this Article during the required term. If the DESIGN/BUILD TEAM fails to furnish and maintain said required insurance, the DFCM may purchase such insurance on behalf of the DESIGN/BUILD TEAM, and the DESIGN/BUILD TEAM shall pay the cost thereof to the DFCM upon demand and shall furnish to the DFCM any information needed to obtain such insurance.

7.8 INDEMNIFICATION.

7.8.1 In General. To the fullest extent permitted by law, the DESIGN/BUILD TEAM shall indemnify and hold harmless the State of Utah, its institutions, agencies, departments, divisions, authorities, and instrumentalities, boards, commissions, elected or appointed officers, employees, agents, authorized volunteers (hereinafter the above listing of entities and persons is referred to as "indemnities") from and against every kind and character of claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from any act or omission in the performance of the Work under this DESIGN/ BUILD TEAM's Agreement including the work of anyone directly or indirectly employed by the DESIGN/ BUILD TEAM, the DESIGN/BUILD TEAM's agent, consultant or independent contractor, or anyone for whose acts any of them may be liable, provided that any such claim, damage, loss or expense is caused in whole or in part by the negligent or intentional act or omission of the DESIGN/BUILD TEAM, anyone directly or indirectly employed by the DESIGN/BUILD TEAM, the agent, consultant or independent contractor of any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a part indemnified hereunder. The DESIGN/ BUILD TEAM shall defend all actions brought upon such matters to be indemnified hereunder and pay all costs and expenses incidental thereto, but the State of Utah shall have the right, at its option, to participate in the defense of any such action without relieving the DESIGN/BUILD TEAM of any obligation hereunder.

7.8.2 Not Reduce Current Rights. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person under this DESIGN/BUILD TEAM's Agreement.

7.8.3 Not Bound By Damage Limitations Under Certain Acts. In claims against any person or entity indemnified under this Paragraph 7.8 by an employee of the DESIGN/BUILD TEAM, anyone directly or indirectly employed by the DESIGN/BUILD TEAM, the agent, consultant or independent contractor of any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Paragraph 7.8 shall not

be limited by a limitation on the amount or type of damages, compensation or benefits payable by or for the DESIGN/BUILD TEAM or said employee, agent, consultant, independent contractor or anyone for whose acts any of them may be liable, under workers' or workmen's compensation acts, disability benefits acts or other employee benefit acts.

ARTICLE 8.
DISPUTE RESOLUTION

8.1 DISPUTES. Any dispute, PRE or Claim between the parties shall be subject to the provisions of Article 7 of the General Conditions. DFCM reserves all rights to pursue its rights and remedies as provided in the General Conditions.

ARTICLE 9.
TERMINATION, SUSPENSION OR ABANDONMENT

9.1 IN GENERAL. This Agreement may be terminated, suspended or abandoned in accordance with the General Conditions.

ARTICLE 10.
**OWNERSHIP AND USE OF DRAWINGS,
SPECIFICATIONS AND OTHER DOCUMENTS**

10.1 IN GENERAL. All Drawings, Specifications, other Contract Documents, as well as studies and projects prepared by the DESIGN/BUILD TEAM under this Agreement, are and shall remain the property of the DFCM, and DFCM shall retain all common law, statutory and other reserved rights with respect thereto. All other provisions regarding the use, re-use and other provision regarding such items as stated in the General Conditions shall apply.

ARTICLE 11.
MISCELLANEOUS PROVISIONS

11.1 GOVERNING LAW AND VENUE. Unless otherwise provided, this DESIGN/BUILD TEAM's Agreement shall be governed by the laws of the State of Utah. Salt Lake County, State of Utah, shall be the venue of any legal proceeding regarding the terms or enforcement of this DESIGN/BUILD TEAM's Agreement.

11.2 WAIVER TO EXTENT OF RECOVERY OF INSURANCE MONIES. The DFCM and DESIGN/BUILD TEAM waive all rights against each other and against the DESIGN/BUILD TEAM's consultants, subcontractors, agents and employees of the other for damages, but only to the extent covered by the DFCM provided Builder's Risk Policy concerning damage to the Work during construction, except such rights as they may have to the proceeds of such insurance as set forth in the General Conditions. The DFCM and DESIGN/BUILD TEAM each shall require similar waivers from their contractors, subcontractors, consultants and agents at any tier.

11.3 BINDING AGREEMENT AND ASSIGNMENT PROVISIONS. The DFCM and DESIGN/ BUILD TEAM respectively, bind themselves, their successors, assigns and legal representatives to the other party to this DESIGN/BUILD TEAM's Agreement and to the partners, successors, assigns and legal representatives of such other party with respect to all covenants of this DESIGN/BUILD TEAM's Agreement. Neither the DFCM nor the DESIGN/BUILD TEAM shall assign its interest in this Agreement without the written consent of the other, except that the Contractor hereby consents to the assignment of the DFCM's interest herein as provided in this Article 11.

11.4 INTEGRATION AND AMENDMENT. This DESIGN/BUILD TEAM's Agreement represents the entire and integrated agreement between the DFCM and DESIGN/BUILD TEAM and supersedes all prior negotiations, representations or agreements, either written or oral. Except for Construction Change Directives

issued under the General Conditions, this Agreement may be amended only by written instrument signed by both DFCM and DESIGN/BUILD TEAM.

11.5 THIRD PARTIES. Except for DFCM's third party beneficiary rights described in this Agreement, nothing contained in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either the DFCM or DESIGN/BUILD TEAM.

11.6 HAZARDOUS MATERIALS. The responsibilities of the DFCM and the DESIGN/BUILD TEAM regarding Hazardous Materials shall be as specified in the General Conditions and the Contract Documents.

11.7 PROMOTION. The DESIGN/BUILD TEAM shall have the right to include accurate representations of the design of the Project, including photographs of the exterior and interior, among the DESIGN/BUILD TEAM's promotional and professional materials. The DESIGN/BUILD TEAM's materials shall not include the DFCM's or the State's confidential or proprietary information if the DFCM has previously advised the DESIGN/BUILD TEAM in writing of the specific information considered by the DFCM to be confidential or proprietary. The DFCM shall provide professional credit for the DESIGN/ BUILD TEAM on the construction sign and in the promotional materials for the Project. For purposes of this Paragraph 11.7, reference to the "DESIGN/BUILD TEAM" shall include the DESIGN/BUILD TEAM's consultants.

11.8 INDEPENDENT CONTRACTOR. The DESIGN/BUILD TEAM shall be considered an independent DESIGN/BUILD TEAM, and as such, shall have no authorization, express or implied, to bind the State of Utah or the DFCM to any agreement, settlement, liability or understanding whatsoever, nor to perform any acts as agent for the State of Utah or DFCM, except as specifically set forth in this DESIGN/BUILD TEAM's Agreement.

11.9 WRITTEN NOTICE. DFCM and DESIGN/BUILD TEAM shall be subject to the written notice provisions of the General Conditions.

11.10 DFCM/AGENCY REVIEW. DFCM or any other entity's (including agency user's of the State of Utah) plan reviews or any other type or nature of review shall in no way relieve the DESIGN/BUILD TEAM of design liability or contractual responsibility under this DESIGN/BUILD TEAM's Agreement. Any guidelines, specifications, drawings or plans provided by the DFCM or any other entity to the DESIGN/ BUILD TEAM shall not relieve the DESIGN/BUILD TEAM of design liability or contractual responsibility under this Agreement.

11.11 CONSULTANTS.

11.11.1 Not Use "Sales" or "Agent" A/E's or Consultants. The DESIGN/ BUILD TEAM agrees not to use "sales" or "agent" A/E's or consultants. Said A/E's or Consultants are not to benefit financially either directly or indirectly from the sale or use of any product on or in the Project.

11.11.2 A/E and Consultant Qualifications. All A/E and Consultants must be licensed in Utah for the professional practice used on the Project and be approved in writing, in advance, by the DFCM.

11.12 A/E, CONSULTANTS, SUBCONTRACTORS OF DESIGN/BUILD TEAM. Any A/E, subcontract, supplier, or consultants agreement that the DESIGN/BUILD TEAM may enter into in regard to the Project of this DESIGN/BUILD TEAM's Agreement, shall require conformance with the provisions of this DESIGN/ BUILD TEAM's Agreement, to the extent applicable.

11.13 WORK BY DFCM OR DFCM'S CONTRACTORS. The DFCM reserves the right to perform work related to, but not part of, the Project and to award separate contracts in connection with other work at the site. The DESIGN/BUILD TEAM shall cooperate with the DFCM to afford the DFCM's other contractors a reasonable opportunity for access and storage of their materials and equipment for execution of their work. The DESIGN/BUILD TEAM shall incorporate and coordinate the DESIGN/BUILD TEAM's Work with work of the DFCM's separate

contractors as required by the Contract Documents. The DESIGN/BUILD TEAM shall promptly notify the DFCM if any such independent action will in any way compromise the DESIGN/ BUILD TEAM's ability to meet the DESIGN/BUILD TEAMS's responsibilities under this Agreement.

11.14 SEVERABILITY. In case a provision of this Agreement is held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not be affected.

11.15 OBSERVATIONS. The Work shall be observed for acceptance in accordance with the General Conditions. DESIGN/BUILD TEAM shall have a Utah duly licensed architect or engineer, visit the site at least once per week during construction and shall make appropriate observations and promptly write and send to the DFCM written reports for each site visit. DFCM may request more periodic site observations by the A/E if needed. The A/E shall be compensated for additional work properly performed and approved in advance in writing by DFCM as well as not caused by errors and/or omissions of DESIGN/BUILD TEAM. The A/E shall report promptly any deficiencies, defects or problems with the Work or site conditions.

11.16 RELATIONSHIP OF THE PARTIES AND ASSIGNMENT. The DESIGN/BUILD TEAM accepts the relationship of trust and confidence established by this DESIGN/BUILD TEAM's Agreement and covenants with the DFCM to cooperate with the DFCM and utilize the DESIGN/ BUILD TEAM's best skill, efforts and judgment in furthering the interest of the DFCM; to furnish efficient business administration and supervision; to make best efforts to furnish at all times an adequate supply of workers and materials; and to perform the Work in the best and most expeditious and economic manner consistent with the interests of the DFCM.

11.17 SUCCESSORS AND ASSIGNS. The DFCM and DESIGN/BUILD TEAM, respectively bind themselves, their partners, successors, assigns and legal representatives to the other party to this Agreement, and to partners, successors, assigns and legal representatives of such other party with respect to all covenants, provisions, rights and responsibilities of this Agreement. The DESIGN/BUILD TEAM shall not assign the Contract without the prior written consent of the DFCM, nor shall the DESIGN/BUILD TEAM assign any moneys due or to become due as well as any rights under the Contract, without prior written consent of the DFCM.

The DFCM agrees to exercise reasonable best efforts to enable the DESIGN/BUILD TEAM to perform the Work by furnishing and approving in a timely way, information required by the DESIGN/BUILD TEAM in accordance with the requirements of the Contract Documents.

11.18 AUTHORITY TO EXECUTE AND PERFORM AGREEMENT. DESIGN/BUILD TEAM and DFCM each represent that the execution of this DESIGN/BUILD TEAM's Agreement and the performance thereunder is within their respective duly authorized powers.

11.19 ATTORNEY FEES AND COSTS. Except as otherwise provided in the dispute resolution provisions of the General Conditions, the prevailing party shall be entitled to reasonable attorney fees and costs incurred in any action in the District Court and/or appellate body to enforce this DESIGN/BUILD TEAM's Agreement or recover damages or any other action as a result of a breach thereof.

11.20 EXTENT OF AGREEMENT. This Agreement represents the entire agreement between the DFCM and DESIGN/BUILD TEAM and supersedes any prior negotiations, representations or agreements. This Agreement may be amended only by written instrument signed by both DFCM and DESIGN/BUILD TEAM. The DESIGN/BUILD TEAM and DFCM for themselves, their heirs, successors, executors, and administrators, whichever may be applicable, hereby agree to the full performance of this Agreement and the Contract Documents.

DESIGN/BUILD TEAM and DFCM each represent that the execution of this DESIGN/BUILD TEAM's Agreement and the performance thereunder is within their respective duly authorized powers.

IN WITNESS WHEREOF, the parties hereto have executed this DESIGN/BUILD TEAM's Agreement on the day and year stated hereinabove.

DESIGN/BUILD TEAM: _____

Signature Date

Title: _____

Please type/print name clearly

State of _____)
County of _____) ss.

On this ____ day of _____, 20____, personally appeared before me _____ whose identity is personally known to me (or proved to me on the basis of satisfactory evidence) and who by me duly sworn (or affirmed), did say that he (she) is the _____ (title or office) of the firm and that said document was signed by him (her) in behalf of said firm.

Notary Public

My Commission Expires _____

(SEAL)

APPROVED AS TO AVAILABILITY OF FUNDS:

*/S/ David D. Williams, Jr.
David D. Williams, Jr.
CBA Financial Director

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

*/S/ DFCM
DFCM

APPROVED AS TO FORM:
ATTORNEY GENERAL

February 2, 2015
By: Alan S. Bachman
Asst Attorney General

APPROVED FOR EXPENDITURE:

*/S/ Division of Finance
Division of Finance

*Electronic signatures are effective when the AIM Status History page is attached to this agreement following this signature page. The AIM Status History page identifies the State signatures

LIST OF ATTACHMENTS

Exhibit "A"	DESIGN/BUILD TEAM Leaders
Exhibit "B"	Cost Proposal Form with Cost Breakdown
Exhibit "C"	List of Competition Documents
Exhibit "D"	Clarification Items

00671 01 AV 0.381 2-2

UTAH NATIONAL GUARD
ATTN: SMD
12953 S MINUTEMAN DR
DRAPER UT 84020-9286



Inquiries? Call your
Business Solutions Team
toll free 1-866-870-3419,
M-F, 7am-7pm MT
rockymountainpower.net



BILLING DATE: Dec 5, 2014
ACCOUNT NUMBER: 18493406-007 2
DATE DUE: Dec 30, 2014
AMOUNT DUE: \$3,050.04



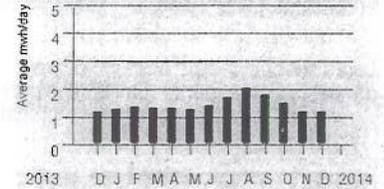
Your Balance With Us

Previous Account Balance	2,787.76
Payments/Credits	2,787.76
New Charges	+3,050.04
Current Account Balance	\$ 3,050.04

Payments Received

DATE	DESCRIPTION	AMOUNT
Nov 17, 2014	Payment Received - Thank you	2,787.76
Total Payments		\$ 2,787.76

Historical Data - ITEM 2



Your Average Daily kwh Usage by Month

PERIOD ENDING	DEC 2014	DEC 2013
Avg. Daily Temp.	41	43
Total kwh	39760	39600
Avg. kwh per Day	1169	1165
Cost per Day	\$89.71	\$88.57

Detailed Account Activity

ITEM 2 - ELECTRIC SERVICE

2200 W 1700 N Salt Lake City UT
Government Building Schedule 6

METER NUMBER	SERVICE PERIOD From To	ELAPSED DAYS	METER READINGS Previous	Current	METER MULTIPLIER	AMOUNT USED THIS MONTH
36071235	Oct 31, 2014 Dec 4, 2014	34	31957	32454	80.0	39,760 kwh
36071235	Oct 31, 2014 Dec 4, 2014	34	16145	16372	80.0	18,160 kvarh
36071235	Demand Dec 4, 2014			1.058	80.0	85 kw

Next scheduled read date: 01-06. Date may vary due to scheduling or weather.

NEW CHARGES - 12/14	UNITS	COST PER UNIT	CHARGE
Basic Charge - 3P			54.00
Demand Charge	85 kw	10.6500000	905.25
Facilities Charge	85 kw	4.0400000	343.40
Energy Charge	39,760 kwh	0.0354200	1,408.30
Renewable Energy Adjustment		0.0030000	6.94
Energy Balancing Account		0.0269000	62.23
Customer Efficiency Services		0.0326000	88.87
Home Electric Lifeline Program			8.91
City Franchise Tax, Non-res		0.0600000	172.14
Total New Charges			3,050.04

Rocky Mountain Power makes it easy for customers and municipalities to report streetlight outages and manage streetlight accounts. You can report a streetlight outage at rockymountainpower.net/streetlights or call 1-888-221-7070.

If you find yourself in a position in which you are not able to pay your electric bills, we encourage you to contact us at 1-888-221-7070. We have a variety of options to help.

Write account number on check & mail to: Rocky Mtn Power, PO Box 26000, Portland, OR 97256-0001

RETAIN THIS PORTION FOR YOUR RECORDS.
RETURN THIS PORTION WITH YOUR PAYMENT



↑ INSERT THIS EDGE FIRST ↑

Late Payment Charge for Utah
A late payment charge of 1% may be charged on the delinquent balance per month.

Change of Mailing Address or Phone?
Check here & provide information on back.

Account Number: 18493406-007 2

Date Due: Dec 30, 2014

AMOUNT DUE: \$3,050.04

Please enter the amount enclosed.

ROCKY MTN POWER
PO BOX 26000
PORTLAND OR 97256-0001



UTAH NATIONAL GUARD
ATTN: SMD
12953 S MINUTEMAN DR
DRAPER UT 84020-9286

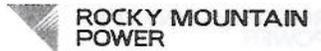
H 18493406 007 226 000305004

01140 01 AV 0.381 4-0

UTAH NATIONAL GUARD
ATTN: SMD
12953 S MINUTEMAN DR
DRAPER UT 84020-9286



Inquiries? Call your
Business Solutions Team
toll free 1-866-870-3419,
M-F, 7am-7pm MT
rockymountainpower.net



BILLING DATE: Dec 30, 2014
ACCOUNT NUMBER: 19100656-008 7
DATE DUE: Jan 22, 2015
AMOUNT DUE: \$1,251.00



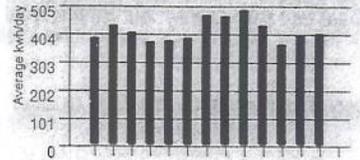
Your Balance With Us

Previous Account Balance	1,163.70
Payments/Credits	-1,163.70
New Charges	+1,251.00
Current Account Balance	\$ 1,251.00

Payments Received

DATE	DESCRIPTION	AMOUNT
Dec 11, 2014	Payment Received - Thank you	1,163.70
Total Payments		\$ 1,163.70

Historical Data - ITEM 1



2013 D J F M A M J J A S O N D 2014

Your Average Daily kwh Usage by Month

PERIOD ENDING	DEC 2014	DEC 2013
Avg. Daily Temp.	34	21
Total kwh	14040	13920
Avg. kwh per Day	413	398
Cost per Day	\$36.79	\$37.36

Detailed Account Activity

ITEM 1 - ELECTRIC SERVICE

1570 N Airport Rd Cedar City UT
General Service, Distribution Schedule 6

METER NUMBER	SERVICE PERIOD		ELAPSED DAYS	METER READINGS		METER MULTIPLIER	AMOUNT USED THIS MONTH
	From	To		Previous	Current		
1052372	Nov 25, 2014	Dec 29, 2014	34	24692	24809	120.0	14,040 kwh
1052372	Demand	Dec 29, 2014			0.32	120.0	38 kw

Next scheduled read date: 01-28. Date may vary due to scheduling or weather.

NEW CHARGES - 12/14	UNITS	COST PER UNIT	CHARGE
Basic Charge - 3P			54.00
Demand Charge	38 kw	10.6500000	404.70
Facilities Charge	38 kw	4.0400000	153.52
Energy Charge	14,040 kwh	0.0354200	497.30
Renewable Energy Adjustment		0.0030000	2.71
Energy Balancing Account		0.0269000	24.26
Customer Efficiency Services		0.0326000	35.29
Home Electric Lifeline Program			8.91
Municipal Energy Sales/use Tax		0.0600000	70.31
Total New Charges			1,251.00

Rocky Mountain Power makes it easy for customers and municipalities to report streetlight outages and manage streetlight accounts. You can report a streetlight outage at rockymountainpower.net/streetlights or call 1-888-221-7070.

If you find yourself in a position in which you are not able to pay your electric bills, we encourage you to contact us at 1-888-221-7070. We have a variety of options to help.

Write account number on check & mail to: Rocky Mtn Power, PO Box 26000, Portland, OR 97256-0001

RETAIN THIS PORTION FOR YOUR RECORDS.
RETURN THIS PORTION WITH YOUR PAYMENT.



↑ INSERT THIS EDGE FIRST ↑

To help those in your area who need assistance paying energy bills, add \$1, \$2, \$5, or \$10 to your payment. If you are paying toward next month's bill, please make sure overpayment is not in increments of the above amounts or it will be donated.

Change of Mailing Address or Phone?
Check here & provide information on back.

Account Number: 19100656-008 7
Date Due: Jan 22, 2015

AMOUNT DUE: \$1,251.00

Please enter the amount enclosed.

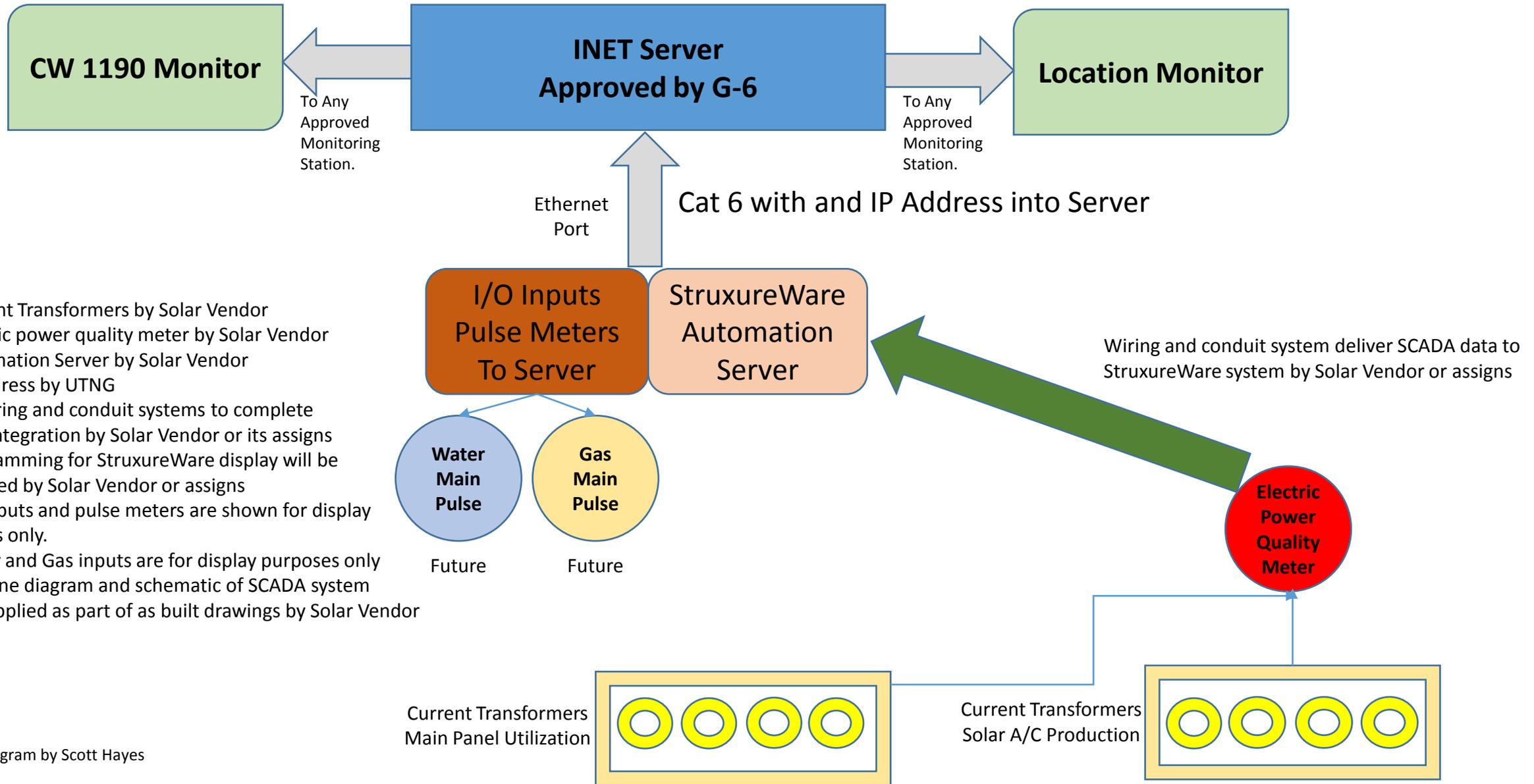
ROCKY MTN POWER
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UTAH NATIONAL GUARD
ATTN: SMD
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DRAPER UT 84020-9286

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SOLAR SCADA INTEGRATION



- Current Transformers by Solar Vendor
- Electric power quality meter by Solar Vendor
- Automation Server by Solar Vendor
- IP address by UTNG
- All wiring and conduit systems to complete SCADA integration by Solar Vendor or its assigns
- Programming for StruxureWare display will be Completed by Solar Vendor or assigns
- I/O inputs and pulse meters are shown for display purposes only.
- Water and Gas inputs are for display purposes only
- One line diagram and schematic of SCADA system To be supplied as part of as built drawings by Solar Vendor

Effective Grounding

Although more common on larger generation interconnections, effective grounding is required on some three phase four wire wye connected customer generation system less than 25 kW.

The requirement comes directly from individual state net metering rules and from IEEE 1547 guidelines.

Background

All PacifiCorp distribution is effectively grounded. Effective grounding prevents over voltage in the case of a fault from exceeding voltage levels that will damage the distribution system or customer equipment. There is often confusion concerning the term effective grounding. When discussed in this circumstance, effective grounding is defined by the National Electric Safety Code as:

"Intentionally connected to earth through a ground connection or connections of sufficiently low impedance and having sufficient current-carrying capacity to prevent the buildup of voltages that may result in undue hazards to connected equipment or to persons."

More specific technical definitions involving symmetrical components of three phase systems are available. For the purpose here, avoiding the buildup of voltages that may result in undue hazards is sufficient.

Under fault conditions, the effectively grounded PacifiCorp distribution system will maintain the voltage of the three phases at acceptable levels. When protection equipment, such as a fuse or recloser opens to isolate the fault, a temporary island condition is created by the customers inverters. Inverters are not required by UL 1741 to shut off as quickly as the distribution system protection will respond. The islanding portion of the system is then susceptible to over voltage that must be controlled by effectively grounding the generating source system.

Exception

There are some cases of systems interconnected wye-wye 3 phase 4 wire, when effective grounding will not be required. Based on UL 1547.7 guidelines, when the aggregate ungrounded generation on a branch of a circuit is less than 10% of the minimum load (daytime minimum load for solar installations) the requirement can be waived. The high loads with respect to generation in that case will prevent the high voltage issue found on higher penetration circuits.

Individual branches behind a protective device in a distribution circuit can have very low minimum loads and it is possible for many 3 phase generation interconnections, regardless of size, to be required to install effective grounding.

Options

The most common 3 phase interconnection of customer generation at a wye- wye transformer is not effectively grounded unless the inverter neutral is connected to neutral ground of the transformer.

Effective grounding can be achieved in a number of ways including but not exclusively.

1. Interconnecting inverters 1 phase line to neutral. Balanced loads are required.

2. A Delta Wye or Zig Zag transformer grounding bank terminated on the customer side of the system.

When a grounding bank is used, neutral overcurrent protection is also required to protect equipment on the distribution side of the interconnection. This can be accomplished in several ways including ground fault protection or a relay. The connections to the grounding bank and the ac generation must open when the neutral over current protection trips.

3. Some inverter models allow or have a hard connection between the ground and the neutral providing the path for neutral current and are effectively grounded. Care must be taken in choosing the inverter. Many inverters have a neutral termination but no path for neutral current, the neutral is only monitored for harmonics control.

When found to be necessary, all designs providing effective grounding for a generation site are subject to PacifiCorp review and approval.

IEEE 1547.7.5.4

7.5.4 Sub-Criteria ID P4.4 - DR will not cause temporary over voltages during a phase-to-ground fault

If a preliminary review determines that there is no risk of temporary over-voltages to the Area EPS and other customers due to loss of system neutral grounding, this sub-criterion is satisfied. For the risk of temporary over-voltages due to loss of system neutral grounding to be null, one of the following grounding configurations need to be implemented:

- The DR is connected using a three-phase, three-wire configuration
- The DR is connected on a single phase distribution transformer and connected line-to-neutral
- The DR is connected to a three phase, four wire system and is effectively grounded or DR peak power is less than 10% of minimum load of smallest Area EPS section.

Based on the type of interconnection to be used for the DR, the Area EPS operator will determine from Table 7.2 if the proposed DR passes the sub-criterion after identifying the primary distribution line configuration that will serve the DR.

Table 7.2—Primary Distribution Interconnection Sub-Criterion

Primary Distribution	Type of Interconnection	Results/Criteria
1-phase, line-to-neutral	Any Type	Pass Sub-Criterion
3-phase, 3-wire	Any Type	Pass Sub-Criterion
3-phase, 4-wire	Effectively Grounded	Pass Sub-Criterion
3-phase, 4-wire	Floating and DR facility peak power is less than 10% of minimum load of smallest Area EPS section.	Pass Sub-Criterion
3-phase, 4-wire	Floating and DR facility peak power is greater than 10% of minimum load of smallest Area EPS section.	Fail Sub-Criterion

Note: If distribution system is a 3-phase, 3-wire section of a 3-phase, 4-wire circuit, the pertinent table entry for 3-phase, 4-wire primary distribution should be used.