Hualapai Planning & Economic Development Department

Request for Proposal for
Cost to Engineer, Procure and Construct (EPC) a Solar Power Plant
for the Grand Canyon West (GCW) Micro-grid

July 3, 2019

ADDENDUM NO. 1

Response to Questions

Pre-submittal conference held via telephone on June 19, 2019, 2:00 PM to 2:45 PM

1. ***Will the EA be available to review?*** Yes, a draft should be available in four weeks.
2. ***Is the intent of the RFP to award on the cost of the system or a range of system prices?*** The wining proposal should take a high-level approach to the project budget. For ranking the proposals, the company's experience, practical approach and costs are weighted equally.
3. ***Is the HTUA looking for turnkey solution or set of components that function as a team?*** Either approach is acceptable.
4. ***How does the HTUA want to handle maintenance of the power plant?*** See Criteria No. 8 of RFP. The HTUA may consider a partnership flip with the developer so the developer can monetize the tax credits and then sell the power plant to the HTUA at a depreciated cost. The HTUA is looking for the best long-term solution to minimize its costs and exposure.
5. ***Should the proposal include a mock-up with more detail added as the project moves forward?*** A one-line diagram will be sufficient at this time.
6. ***What is the time line to build this project?*** Should be in operation by the end of 2020.
7. ***What are the future loads anticipated at Grand Canyon West?*** Several loads include: a 250-room resort hotel & full service restaurant (1,600 KWs), new airport terminal (540 KWs), full service kitchen (193 KWs), new & existing housing (149 KWs), and a new welcome center (313 KWs) The overall loads are predicted to be 1.9 MW in five years, 3.4 MW in ten years and 6.0 MW in 15 to 20 years.
8. ***Are their energy efficiency gains to be had at Grand Canyon West?*** Yes, in replacing old buildings with new ones (inflatable airport terminal), installing LED lighting, adding building insulation and upgrading HVAC units.
9. ***What is the estimated cost to design and construct the 69 KV line?*** The cost is estimated at $15 million.
10. ***Who will supply the electric power to energize the 69 KV line?*** UniSource.
11. ***Is the RFP due date still July 8, 2019?*** Will discuss with HTUA Board

12. ***Would the HTUA consider a Power Purchase Agreement?*** No.
13. ***Can we assume a cost per KWHr for diesel generation?*** The cost is approximately 30 cents per KWHr.
14. ***Can questions be submitted after today's meeting?***

Additional Questions from e-mail submitted by interested bidder on June 21st

1. ***Will the tribe perform its own NEPA review?*** Yes
2. ***Will the contractor be responsible for the geo-technical report?*** Yes
3. ***What type of funding will be involved?*** USDA/RUS most likely as well as tribal capital
4. ***Can the RFP submittal dead line be extended into August?*** Will discuss with HTUA Board

Additional Questions from e-mail submitted by interested bidder on June 25th

1. ***Contract period is short (8/10/19 to 12/31/19). Can this period be extended?*** The contract period will be 18 to 24 months after notice to proceed.
2. ***Is Schedule "C" meant for design/engineering only?*** Schedule C now requests: 1) Project design costs (Engineering and Design), 2) EPC cost for solar field, 3) EPC cost for battery storage, 4) and EPC cost for connection to existing Micro grid (see Revised Schedule C attached).
3. ***What is the budget?*** Undetermined
4. ***Please provide the following:***
    a. ***Existing 20.8kV Micro-grid Single-Line Drawing and design documents.*** Available upon request for upload to vendor's ftp site or cloud-based file exchange.
    b. ***All existing generator specifications.*** Available upon request for upload to vendor's ftp site or cloud-based file exchange.
    c. ***Existing Micro-grid Controls information/details.*** Available upon request for upload to vendor's ftp site or cloud-based file exchange.
    d. ***Current cost of energy in $/kWh.*** Approximately 30 cents per KWhr.
    e. ***Current Diesel fuel consumption.*** Total diesel fuel consumption at Grand Canyon West was 92,873 gallons in 2018.
    f. ***Current cost of diesel fuel.*** Market price.
    g. ***Existing Communications Plan/Details.*** Available upon request for upload to vendor's ftp site or cloud-based file exchange.
    h. ***Design Details/Specifications for Pad Mount Switches 1, 2 and 5.*** Available upon request for upload to vendor's ftp site or cloud-based file exchange.

5. ***What is the expected construction schedule?*** 12 to 18 months

<u>Pre-submittal conference held at Grand Canyon West on June 26, 2019, 2:00 PM to 4:30 PM</u>

1. ***Can you provide the single-phase and three-phase motor loads?*** Focus on resistive loads.
2. ***Is 15-minute interval data available for the generators?*** Available upon request for upload to vendor's ftp site or cloud-based file exchange.
3. ***Is interval data available in Excel format?*** Available upon request for upload to vendor's ftp site or cloud-based file exchange.
4. ***Is interval data for demand (KW) available since interval data shows only shows energy (KWHr)?*** Only real and apparent energy is available.
5. ***Can we estimate the non-grid connected loads?*** The load data is not available; however, the energy usage in 2018 was approximately 825,000 KWHrs based on diesel fuel uses as compared to the mini-grid diesel fuel use and energy production over the same time frame.
6. ***Should we estimate the cost to connect these loads to the micro-grid?*** Yes
7. ***Does the tribe own the Cat 750 generator set?*** Yes
8. **Who has the maintenance contract and what is its term?** Empire Cat, Kingman, Arizona
9. ***How large is the propane tank next to the generator set?*** Estimated to be 10,000 gallons
10. ***Is the solar array confined to only 6 acres?*** Prefer smallest footprint

<u>The RFP due date is now August 8, 2019 (see revised RFP attached). Questions can be submitted up to August 1, 2019, so an addendum can be published by August 5, 2019</u>.

Should you have any questions regarding this Addendum, please contact me at (928) 769-1310.

Except as modified herein all other specifications, terms, conditions and special provisions shall remain the same.

ISSUED BY:

Kevin Davidson
Planning Director

Attachment: Sign In Sheet for June 25, 2019, pre-submittal meeting
Revised RFP dated July 3, 2019

cc: File

Sign–In sheet

Sign-In Sheet for Hualapai Solar RFP Pre-Submittal Meeting 6/26/2019

	Name	Department/Organization	Telephone	E-mail
1	BRIAN ROPPÉ	NVS	619-733-7654	brian.roppe@nvs.com
2	Stoli Jager	CUPERTINO ELECTRIC	408-417-0748	Stoli.jages@cei.com
3	LUKE ALM	SOLON	602-390-6002	LUKE.ALM@SOLONAMERICA.COM
4	Allen Cadreau	Indian Energy LLC	714-686-9792	acadreau@indianenergyllc.com
5	AKIO NUTHA	Indian Energy LLC	SAMC	—
6	Steve Lewis	RPA	602 263 1177	slewis@rpaeng.com
7	Jaumini Ali	RPA	"	jupadhyaya@rpaeng.com
8	Kevin Paulker	Planning	(928) 769-1310	Kpaulker@hualapai-nsn.gov
9	Leland Cardy	Public Works	928-769-6428	Lcardy@hualapai-NSN.gov
10	Bobby Havatone	TERO	928-607-8542	Bhavatone@hualapai-NSN.gov
11	Lana Keller-Robinett	HTUA ~~TERO~~	928-715-5053	lana.keller-robinett@grandcanyonresort.com
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Revised RFP dated July 3, 2019

Hualapai Planning & Economic Development Department

Request for Proposal for

Cost to Engineer, Procure and Construct (EPC) a Solar Power Plant for the Grand Canyon West (GCW) Micro-grid[1]

Background Information:

The Hualapai Planning Department (Planning) is a department of the Hualapai Tribal Nation (Tribe) charged with the responsibility to oversee the development and management of energy related activities on the Hualapai Reservation.

The Hualapai Tribe is the sole operator/owner of a remote tourist attraction located on the rim of the Grand Canyon known as Grand Canyon West – home of the world famous Skywalk. The Skywalk attracts over a million visitors each year. At present Grand Canyon West's electrical energy requirements are served by (3) - 750 KW diesel generators operated in parallel and a handful of individual small generators units. The power generated by these units is delivered to the end users by a 20.8 KV Micro-grid.

As an alternative to developing a 35-mile long 69 KV power line, the Hualapai Tribe is seeking to replace the diesel generators with an "off the grid" Solar Power Plant. This request for proposal is for the cost of Engineering, Procurement and Construction of said Solar Power Plant to provide all of the electrical requirements of Grand Canyon West. It is envisioned that the supplier will propose a proven technology Solar Power Plant and the appropriate energy storage system (battery) to allow for continued operations during the evening hours and during periods of low solar production. The existing generators will be retained for a supplemental and emergency back–up power. The design should identify the ideal mix of solar, battery and diesel generation that provides the lowest life-cycle cost over a 20-25 year period.

The intent of this RFP is to select a vendor who is willing to work with the Hualapai in first proposing an industry standard design and then refining said design to GCW current and future needs. At this juncture the Tribe is seeking an approximate cost proposal for consideration. If the initial design and cost estimate are accepted by the Hualapai Tribe for further consideration then, the vendor(s) will develop a final cost estimate for consideration by the Hualapai Tribe.

The Tribe has approximately two years of actual hourly energy consumption data for GCW. This data should be used by potential bidders to size the Solar Power Plant and associated storage devices (battery). Power from the existing diesel generators is distributed throughout GCW by a 20.8 KV, 3-phase micro grid-Attachment G. The potential sites for the Solar Power Plant are included in Appendix H.

[1] Revised July 3, 2019

All proposals submitted in response to this RFP must conform to the requirements and specifications outlined in this document in its entirety.

This RFP does provide Indian Preference but is not limited to Indian Owned Enterprises only. (see Indian Preference Statement and Requirements –Attachment D)

RFP INFORMATION AT A GLANCE

Planning Contact Person		Mr. Kevin A. Davidson, Director
	Phone	928-769-1310
	e-mail	kdavidson@hualapai-nsn.gov
	Address	PO Box 179 Peach Springs, AZ 86434
RFP Submittal		Hualapai Planning Department 887 Highway 66 PO Box 179 Peach Springs, AZ 86434

Proposal submittals will not be accepted via fax or e-mail

Pre-Submittal Teleconference	**2:00 PM, Wednesday, June 19, 2019**
Pre-Submittal Field Trip	**2:00 PM, Wednesday, June 26, 2019**
Proposal Submittal Deadline	**4:00 PM, Thursday, August 8, 2019**
Not to Exceed Limits:	
Contract Time Period for Design	September 10, 2019, to March 31, 2020
Contract Time Period for Construction	April 1, 2020, to August 31, 2021

Hualapai Tribe's Reservation of Rights Notice

- The Hualapai Tribe reserves the right to reject any and all proposals, to waive any informality in the RFP process, or to terminate the RFP process at any time.
- The Hualapai Tribe reserves the right to not award a contract pursuant to this RFP.
- The Hualapai Tribe reserves the right to terminate a contract awarded pursuant to this RFP, at any time for its convenience upon fourteen (14) days written notice.
- The Hualapai Tribe reserves the right to negotiate the fees proposed by the applicant/entity.
- The Hualapai Tribe reserves the right to reject and not consider any proposal that does not meet the requirements of this RFP, including but not-necessarily limited to: incomplete proposals and/or proposals offering alternate or non-requested services.
- The Hualapai Tribe shall have no obligation to compensate any applicant for any costs incurred in responding to this RFP.

Background:

The Hualapai Indian Tribe (Tribe) is actively planning to develop and manage its substantial energy resources. These include both the renewable energy resources, which have been shown to exist on the 998,000-acre Hualapai Reservation through the findings of past feasibility studies, and those energy resources that are imported for the tribe's benefit, namely electricity from the regional utility grid. The tribe is seeking to bolster its energy resource development and management capacity not in a vacuum but in the service of a major, decades-long venture to increase its economic viability, self-determination and sustainability.

The majority of the Hualapai Reservation, including the seat of government in Peach Springs, where nearly 1,100 of the 1,335 residents of the Reservation reside, is served by a local electric utility – Mohave Electric Cooperative (MEC). For several years the Tribe has discussed and, in 2007, commissioned a feasibility study on the creation of a Hualapai Tribal Utility Authority (HTUA) to provide electric service directly to its members. This goal was re-affirmed during the DOE's Strategic Technical Assistance Response Team workshop in 2012. This would include the purchase of the local power distribution infrastructure at depreciated costs, the wheeling of power to the HTUA, and the management of the electricity supply and customer base to ensure that accounts are paid in a timely fashion. To that end, the Hualapai Tribal Council approved the HTUA Ordinance on September 24, 2014, with board members selected thereafter. The HTUA completed a successful amendment to the Hualapai Constitution which allows the tribal council to enter into sophisticated agreements with counter-parties, such as the USDA, which will request a limited waiver of sovereign immunity as part of

a multi-million dollar loan application. The HTUA organization and project chart is included in Attachment F.

The primary mission of the HTUA is to serve the electrical utility needs of Grand Canyon West, the tourist destination and the heart of the Tribe's economic development initiative for nearly 30 years and which has averaged 1,000,000 visitors per year for the past three years. This 9,000-acre development, which employs 700 people including 250 Hualapai tribal members, and includes a bustling airport, is not connected to the regional electric utility grid and is reliant on three Caterpillar 750 diesel generators. Operations require technicians with a high technical skill level to safely and efficiently handle units. Training the existing staff to be employed by the HTUA is seen as preferable to third-party contracting.

In 2015, the tribe received a High Energy Cost grant from the U.S. Department of Agriculture's (USDA) Rural Utilities Service (RUS) in the amount of $1,881,135 to construct a portion of a new three-phase power line to Grand Canyon West and is also preparing a major loan application to fund the balance of the power line project which will connect to an existing substation on the regional electric power grid, more than 30 miles away, owned and operated by UniSource Energy Services (UNSE). Tying to the UNSE grid will achieve the goal of providing access to wholesale power as well as federal power allotments from the Colorado River Storage Project (CRSP) and Boulder Canyon Project (BCP). Establishing the new power line will require additional right-of-way to construct the power line across both private and public lands. The USDA-RUS loan application also requires an entity, such as the HTUA, to manage the electricity and collect revenue from its customers to ensure the loan is paid back. This RFP seeks a competitive solar alternative to a hard wire line from UniSource Energy Services (UNSE) substation near Dolan Springs

Finally, a 2012 BIA grant-funded study for establishing a utility-scale solar farm (20 MW to 100 MW) on the Hualapai Reservation shows that such a project is feasible. The HTUA may form a for-profit subsidiary to construct and manage the solar farm. If the tribe prefers to lease the land to a third-party developer then the tribe, with assistance of the HTUA, must determine the value of the lease and Power Purchase Agreement.

I. SCOPE OF PROPOSAL

The Hualapai Planning Department (Planning) will receive proposals for professional services that meet the program's objectives as follows:

1. The Hualapai Tribe is the sole operator/owner of a remote tourist attraction located on the rim of the Grand Canyon known as Grand Canyon West – home of the world famous Skywalk. The Skywalk attracts over a million visitors each year. At present the Grand Canyon West's electrical energy requirements are served by (3) - 750 KW diesel generators operated in parallel and a handful of individual small generators units. The power generated by these units is delivered to the end users by a 20.8 KV Micro grid.

   As an alternative to developing a 35-mile long 69 KV power line, the Hualapai Tribe is seeking to replace the diesel generators with an "off the grid" Solar Power Plant. This request for proposal is for the cost of Engineering, Procurement and Construction of said Solar Power Plant to provide all of the electrical requirements of Grand Canyon West. It is envisioned that the supplier will propose a proven technology Solar Power Plant and the appropriate energy storage system (battery) to allow for continued operations during the evening hours and during periods of low solar production. The existing generators will be retained for a supplemental and emergency back–up power. The design should identify the ideal mix of solar, battery and diesel generation that provides the lowest life-cycle cost over a 20-25 year period.

2. The intent of this RFP is to select a vendor who is willing to work with the Hualapai in first proposing an industry standard design and then refining said design to GCW current and future needs. At this juncture, the Tribe is seeking an approximate cost proposal for consideration. If the initial design and cost estimate are accepted by the Hualapai Tribe for further consideration then, the vendor(s) will develop a final cost estimate for consideration by the Hualapai Tribe.

3. The Tribe has approximately two years of actual hourly energy consumption data for GCW. This data should be used by potential bidders to size the Solar Power Plant and associated storage devices (battery). Power from the existing diesel generators is distributed throughout GCW by a 20.8, KV 3-phase micro grid-Attachment G. The potential sites for the Solar Power Plant are included in Appendix H.

4. Attend RFP telephonic scoping meeting at on 6/19/2019
   a. Interested Parties should Contact Mr. Davidson at (928) 769-1310 by 1:00 PM on 6/19/2019 for call in number and pass code

5. Attend RFP field scoping meeting at on 6/26/2019 at GCW to become familiar with the GCW site/operation.
   - Review proposed solar field sites

        - Proposal to address any concerns with air traffic in relation to glare produced by solar array
    - Review existing Micro-grid and proposed micro-grid interconnection point
    - Meet with GCW and HTUA representatives to discuss GCW goals as they pertain to energy supply
    - Evaluate site logistics for construction and operation
        - GCW is sited on bedrock which is 12 inches or less below the ground cover

6. Review all available load data and solar levels at the site to determine size of solar array necessary to support daily operations and battery storage requirements to support after-hours operations.
    - GCW will make available 24-hour load data for the last 20 months
    - GCW will make available 3-phase and single phase motor loads
    - GCW will discuss any proposed future load additions/subtractions
    - GCW/HTUA do not have any site specific solar insolation levels
        - Proposal will identify source of solar insolation levels used in sizing facility

7. Design a Solar solution that provides for GCW energy requirements
    - Provides for the energy requirements for GCW
        - Instantaneously
        - Minute by minute
        - Hourly
        - Daily
        - Weekly
        - Yearly
    - Provide adequate battery back-up
        - For periods of no sun
            - Nighttime
            - Shoulders
            - Extended cloudy days based on historical weather patterns
    - Be supportive of a future interconnection to a regional transmission grid
        - Facility should allow for connection to a synchronous grid when and if it becomes available
    - Proposal should include expected Solar Power Plant production based on readily available insolation levels for the site from NREL

8. Discuss ownership/operation alternatives that address cost of operations, reliability (warranty/guarantee and service call response times) and tax benefits.

    - Facility is owned by provider
    - Ownership by the Hualapai Tribe

II. PROPOSAL FORMAT

The Planning and Economic Development Department intends to retain the successful applicant on a "Best Value" basis and qualification evaluation, not a "Low Bid" basis, so the Planning can properly evaluate the proposals received. All proposals submitted in response to this RFP must be formatted in accordance with the sequence noted below. Each category must be separated by index dividers numbered and labeled with the corresponding Tab reference also noted below. None of the proposed services may conflict with any requirement Planning has published herein or has issued by addendum

Tab 1: Form of Proposal: The Form of Proposal is attached hereto and incorporated herein by reference as Attachment A. It must be fully completed and executed and submitted as a part of the proposal.

Tab 2: Profile of Firm Form: The Profile of the Firm Form is attached hereto and incorporated herein by reference as Attachment B. It and its required attachments must be fully completed and executed and submitted as a part of the proposal.

Tab 3: Proposed Service Description: As more fully detailed within Section I, Scope of Proposal, Provide a narrative description of the overall system design including all subsystems and associated ratings and all services proposed to be provided as well as a description of the plan and/or methods that the applicant will utilize to deliver the proposed services.

Tab 4: Proposed Fees Form: The Proposed Fees Form is attached hereto and incorporated herein by reference as Attachment C. It must be fully completed, signed, and submitted as a part of the proposal.

Tab 5: Managerial Capacity: The applicant/entity must submit a concise description of its managerial capacity to deliver the proposed services. Resumes of key personnel should be included under this tab.

Tab 6: Client List: The applicant/entity must submit a list of at least three (3) former or current clients for whom the applicant has performed similar or like services to those being proposed within the past three years. The list must include:

- Client's name
- Client's contact name
- Clients phone number
- A description of services provided

Tab 7: Subcontractor/Joint Venture Information: Describe hereunder whether or not the applicant intends to use any subcontracts for this job, if awarded, and/or if this proposal is a joint venture with another firm. Please note that all information required from the applicant under the preceding tabs is also required for any major subcontractors (10% or more) and for any joint venture partners.

Tab 8: Indian Preference Documentation: For any entity claiming an Indian Preference, they shall include any completed certification forms and required attachments that substantiate the percentage of Indian ownership of the entity.

Tab 9: Other Information: The applicant/entity may include any other general information that the applicant believes is appropriate to assist the selection committee in it evaluation such as letters of recommendation and relevant project descriptions.

III. PROPOSAL SUBMISSION

All proposals must be submitted and time-stamped received in the Planning Office no later than the submittal deadline stated herein or within any ensuing addendum. Three copies of the proposal submittal including one original signature copy shall be placed in a sealed package addressed to:

Hualapai Planning & Economic Development Department
Attention: Mr. Kevin A. Davidson, Director
887 Highway 66
PO Box 179
Peach Springs, AZ 86434

Package exterior must clearly denote:

SOLAR PLANT FOR GRAND CANYON WEST – HUALAPAI PLANNING

Proposals submitted after the published deadline will not be accepted.

A. Submission Conditions:

Applicants are not allowed to change the Conditions or Specifications contained herein by making or entering onto these documents or the documents submitted any revisions or additions; and if any such additional marks, notations, or revisions are entered on any of the documents that are submitted to Planning by the applicant, such may invalidate that proposal. If, after accepting such a proposal, the Planning Department decides that any such entry has not changed the intent of the proposal that the Planning intended to receive, the Planning Department may accept the proposal and the proposal shall be considered by the Planning Department as if those additional marks, notations or revisions were not entered on such.

By requesting the proposal documents, each such prospective applicant is agreeing to confirm (by signing and returning by fax) all notices that the Planning delivers to him/her, and by submitting a proposal, the applicant is thereby agreeing to abide by all terms and conditions published herein and by addendum pertaining to this RFP.

B. Submission Responsibilities:

It shall be the responsibility of each such applicant to be aware of and abide by all dates, times, conditions, requirements, and specifications set forth within all applicable documents issued by the Planning and Economic Development Department including the RFP, the required Proposal Format, and any addenda published by the Department. By virtue of completing, signing, and submitting the completed documents, the applicant is stating their agreement to comply with the instructions, conditions, and requirements set forth within those documents. Written notice from the applicant not authorized in writing by the Planning and Economic Development Department, to exclude any of the Planning Department requirements contained within the documents, may cause that applicant to not be considered.

IV. PROPOSAL EVALUATION CRITERIA

A. Evaluation Criteria: The following criterion will be utilized by Planning and Economic Development Department to evaluate each proposal submitted:

Criterion 1 – 30 Points – Specialized Knowledge and Experience and Technical Competence that the applicant displays for the work required based upon the work history and the resumes submitted for the staff proposed to perform the work. The past performance of the applicant on prior projects of the same or similar nature, based on the letters of reference and/or the client lists submitted, and based upon the results of any consultation that Planning chooses to conduct with such.

Criterion 2 – 30 Points – Capability that the applicant displays in that the proposal submitted shows: (a) A knowledge and understanding of the scope of the work to be performed; (b) a realistic approach to the performance of the required work.

Criterion 3 – 30 Points – Costs of the proposed services.

Criterion 4 – 10 Points - Indian Owned Enterprise.[2]

[2] For any applicant claiming Indian Preference, the applicable information shall be entered where provided on the Form of Proposal. Planning shall retain the right to deny to any applicant any Indian Preference claimed, if in the opinion of Planning, the applicant does not submit the appropriate justification required by Attachment D. Therefore, Planning shall not be able to accept any such additional documentation after the deadline for the receipt of proposals.

B. Evaluation Method

Planning shall establish a panel to evaluate each proposal submitted in response to this RFP in accordance with the evaluation criteria referenced in Section IV-A of this document. The evaluation methods utilized by the panel may include reports from oral interviews of each applicant's references.

All persons having a familial (including in-laws) and/or employment relationships (past or current) with principals and/or employees of an applicant/entity will be excluded from participation on the Planning evaluation panel. Similarly, all persons having ownership interest in and/or a contract relationship with an applicant/entity will be excluded from participation on the Planning evaluation panel.

V. ATTACHMENTS

A. Form of Proposal

B. Profile of Firm Form

C. Proposed Costs Form

D. Indian Preference Form

E. Hualapai Professional Services Agreement

F. HTUA Formation and Project Charts

G. GCW Micro-Grid Plans

H. Potential Locations of Solar Power Plant

ATTACHMENT A

FORM OF PROPOSAL

Tab 1: Form of Proposal: This Form of Proposal –Attachment A, is attached hereto and incorporated herein. Requirements listed here must be fully completed, executed and submitted to constitute a complete proposal (please mark on Attachment A each Tab included in the proposal).

Tab 2: Profile of Firm Form: The Profile of Firm Form is attached hereto and incorporated herein by reference as Attachment B. It and its required attachments must be fully completed and executed and submitted as a part of the proposal. Include descriptions of relevant project experience behind the Profile of Firm Form under this Tab 2. Letters of reference and other supporting documentation should be included under Tab 9 - Other Information.

Tab 3: Proposed Service Description: As more fully detailed within Section I, Scope of Proposal, Subsections A through C. Provide a narrative description of all services proposed to be provided as well as a description of the plan and/or methods that the applicant will utilize to deliver the proposed services.

Tab 4: Proposed Fees Form: The Proposed Fees Form is attached hereto and incorporated herein by reference as Attachment C. It must be fully completed, signed, and submitted as a part of the proposal.

Tab 5: Managerial Capacity: The applicant entity must submit a concise description of its managerial capacity to deliver the proposed services. Include Resumes of key personnel under this tab.

Tab 6: Client List: The applicant entity must submit a list of at least three (3) former or current clients for whom the applicant has performed similar or like services to those being proposed, within the past three years. The list must include:

- Client's name
- Client's contact name
- Clients phone number
- A description of services provided

Tab 7: Subcontractor/Joint Venture Information: Describe hereunder whether the applicant intends to use any subcontracts for this job, if awarded, and/or if this Proposal is a joint venture with another firm. Please note that all information required from the applicant under the preceding Tabs must also be included for any major subcontractors (10% or more) and for any joint venture partners.

Tab 8: Indian Preference Documentation: For any entity claiming an Indian Preference, they shall include any completed certification forms and required attachments that substantiate the percentage of Indian ownership of the entity.

Tab 9: Other Information: The applicant entity may include any other general information that the applicant believes is appropriate to assist Planning in its evaluation.

ATTACHMENT B

PROFILE OF FIRM FORM

(1) Prime_____ Subcontractor_____ (This form must be completed by each)

(2) Name of Firm: _____

(3) Street Address: _____

(4) City, State, Zip: _____

(5) Phone: _____ Fax : _____

(6) Federal Tax ID Number _____

(7) State Contractors License; State, Type, and Number
_____

(8) Year Firm Established: _____

(9) Type of Ownership: _____

(10) Former Name and Year Established (if applicable)
_____

(11) Name of Parent Company and Year Acquired (if applicable)
_____

(12) Identify Principals/ Partners in firm; submit brief resume for each under Tab 5.

Name	Title	% Ownership

_____

_____

_____

_____

_____

(13) Identify individual(s) that will act as project manager and any other supervisory personnel that will work on the project; submit brief resumes for each under Tab 5.

Name Title

_____

_____

_____

_____

(14) General Liability Insurance carrier and policy number
_____ Coverage Amount _____

(15) Professional Liability Insurance carrier and policy number
_____ Coverage Amount _____

(16) Debarred Statement: Has this firm or any of its principals ever been debarred from providing any services by the Federal Government, State Government, or Indian Tribe?
Yes_____ No_____
If yes, please attach a full explanation including dates, circumstances, and current status.

(17) Disclosure Statement: Does this firm or any principal of this firm have any current or past personal or professional relationship with any member of Planning staff or serving Hualapai elected officials? Yes_____ No_____
If yes, Names of such staff or officials_____

(18) Verification Statement: The undersigned applicant hereby states that by completing and submitting this form they are certifying that all information provided herein is, to the best of their knowledge, true and accurate, and that if Planning discovers that any information is false, that shall entitle Planning to not make and award or to cancel any award with the undersigned party.

_____ _____ _____

Signature (Authorized Representative Title Date

_____

Printed Name

ATTACHMENT C

PROPOSED COSTS FORM

1. PROJECT DESIGN & ENGINEERING COSTS

COSTS FOR PROFESSIONAL SERVICES (PER HOUR)

COSTS FOR ANCILLARY OR SUPPORT SERVICES

COSTS FOR TRAVEL EXPENSES

COSTS FOR OTHER EXPENSES (COPYING, OFFICE SUPPLIES, ETC.)

TOTAL DESIGN & ENGINEERING COST

2. COST ESTIMATE TO CONSTRUCT FOR SOLAR FIELD

3. COST ESTIMATE TO CONSTRUCT BATTERY STORAGE

4. COST ESTIMATE TO CONSTRUCT CONNECTION TO EXISTING MICRO GRID

GRAND TOTAL COST

_____ _____

COMPANY NAME ADDRESS

_____ _____ _____

SIGNATURE (AUTHORIZED REPRESENTATIVE) TITLE DATE

PLEASE NOTE: Do not provide these costs in any other manner other than as detailed within this form. Costs shall be either provided on this form, or attached to this form. In either case, Costs are to be submitted only under Tab 4. Any applicant that submits proposed costs under any other tab will be rejected from consideration.

ATTACHMENT D

INDIAN PREFERENCE FORM

Indian Preference Statement:

Indian Preference in Selection Process:

The work to be performed under this contract is on a project subject to section 7(b) of the Indian Self Determination and Education Assistance Act (25 U.S.C. 450 e(b)) (Indian Act). Section 7(b) requires that to the greatest extent feasible (A) preferences and opportunities for training and employment shall be given to Indians and (B) preferences in the award of contracts and sub-contracts shall be given to Indian-owned economic enterprises.

The parties to contracts associated with this project shall comply with the provisions of section 7(b) of the Indian Act. In connection with this project, contractors shall, to the greatest extent feasible, give preference in the award of any sub-contracts to Indian organizations and Indian-owned economic enterprises, and preferences and opportunities for training and employment to Indians and Alaska Natives.

Contractors shall include this section 7(b) clause in every sub-contract in connection with the project, and shall, at the direction of the Tribe, take appropriate action pursuant to the sub-contract upon a finding by the Tribe, or HUD that a sub-contractor has violated section the 7(b) clause of the Indian Act.

PLEASE NOTE: It is not necessary to complete and submit this form and any of the noted items if you are not claiming Indian Preference.

CERTIFICATION FOR FIRMS SEEKING INDIAN PREFERENCE IN CONTRACTING AND DEMONSTRATION OF ABILITY: So that the PLANNING may assess your firm's eligibility to claim Indian Preference as noted above, in addition to other required items, please include with your submission as many of the following items as possible. Failure to include any of these items as evidence may result in denial by the PLANNING to certify your firm as an Indian owned company and therefore, ineligible to receive Indian Preference.

INDIAN ENTERPRISE QUALIFICATION STATEMENT

The Undersigned certifies under oath the truth and correctness of all answers to questions made hereinafter:

1. Applicant wishes to qualify as:

An "Economic Enterprise" as defined in Section 3(e) of the Indian Financing Act of 1974 (P.L. 93-262); that is "any Indian-Owned...commercial, industrial or business activity established or organized for the purpose of profit: Provided, that such Indian Ownership shall constitute not less than 51 percent of the enterprise:

--or--

A "Tribal Organization" as defined in Section 4(c) of the Indian Self-Determination and Education Assistance Act (P.L. 93-63 8); that is: "the recognized governing body of any Indian Tribe; any legally established organization of Indians which is controlled, sanctioned or chartered by such governing body or which is democratically elected by the adult members of the Indian community to be served by such organization and which includes the maximum participation of Indians in all phases of its activities: Provided, that in any case where a contract is let or grant made to an organization to perform services benefiting more than one Indian Tribe, the approval of each such Indian Tribe shall be a prerequisite to the letting or making of such contract or grant..."

2. Name of Enterprise or Organization: _____

Address: _____

_____

Telephone No.: _____

3. Check One:

__ Corporation __ Joint Venture

__ Partnership __ Other:

__ Sole Proprietorship

4. Answer the following:

If a Corporation:

a. Date of incorporation: _____

b. State of incorporation: _____

c. Give the names and addresses of the officers of this Corporation and establish whether they are Indian (I) or Non-Indian (NI).

Name and Social Security No.	I or NI	Title	Address	% of Stock Ownership
_____	___	President	_____	_____
_____	___	Vice-President	_____	_____
_____	___	Secretary or Clerk	_____	_____
_____	___	Treasurer	_____	_____
_____	___	_____	_____	_____
_____	___	_____	_____	_____
_____	___	_____	_____	_____

_____ ___ _____ _____ _____

d. Complete the following information on all stockholders who are not listed in c. above, owning 0% or more of the stock. Establish whether they are Indian (I) or Non-Indian (NI).

Name and Social Security No.	I or NI	Address	% of Stock Ownership

If a Sole Proprietorship or Partnership:

a. Date of Organization: _____

b. Give the following information on the individual or partners and establish whether they are Indian (I) or Non-Indian (NI).

Name and Social Security No.	I or NI	Address	% of Stock Ownership

_____ ___ _____ _____

_____ ___ _____ _____

_____ ___ _____ _____

_____ ___ _____ _____

_____ ___ _____ _____

<u>If a Joint Venture</u>:

a. Date of Joint Venture Agreement: _____

b. Attach the information for each member of the joint venture prepared in the appropriate format given above.

5. Give the name, address, and telephone number of the principal spokesperson of your organization:

_____

_____

6. Has any officer or partner of your organization listed in #4 been an officer or partner of another organization that failed in the last ten years to complete a contract? _____

If yes, state circumstances:

_____

_____

_____

_____

7. Has this enterprise failed in the last ten years to complete any work awarded to it or to complete the work on time? ____

If so, note when, where and why:

_____

_____

_____

_____

_____

8. Will any officer or partner listed in #4 be engaged in out-side employment?

____ Yes ____ No

If Yes, complete:

Name/Title	Hours Per Week Outside the Enterprise
_____	_____

9. If the enterprise or anyone listed in #4 above, currently subject to an administrative sanction issued by any department or agency of the Federal Government?

___Yes ___No

If Yes, complete:

Name of person/business	Date of Action	Type of Action	Department or Agency
_____	_____	_____	_____
_____	_____	_____	_____

10. Does this enterprise have any subsidiaries or affiliates or is it a subsidiary or affiliate of another concern?

___Yes ___No

If Yes, complete:

Name and address of subsidiary, affiliate or other concern	Description of Relationship
_____	_____
_____	_____
_____	_____

_____ _____

11. Does this enterprise or any person listed in #4 above have or intend to enter into any type of agreement with any other concern or person which relates to or affects the on-going administration, management or operations of this enterprise? These include but are not limited to management, and joint venture agreements and any arrangement or contract involving the provision of such compensated services as administrative assistance, data processing, management consulting of all types, marketing, purchasing, production and other types of compensated assistance.

___Yes ___No

If yes, attach a copy of any written agreement or an explanation of any oral or intended agreement.

12. Has this enterprise ever been subject to a judgment of any court or administrative sanction (Federal, State, or Tribal)?

___ Yes ___ No

Has any individual listed in #4 ever been subject to judgment of any court or administrative sanction (Federal, State, or Tribal)?

___Yes ___No

If the answer is Yes to either question, furnish details in a separate attachment.

13. Has any tax lien or other collection procedure been instituted against this enterprise or the individuals listed in #4 as a sole proprietor or partner in their capacities with this enterprise or other enterprise?

___Yes ___No

If yes, furnish details in a separate exhibit.

14. Has this enterprise or any person listed in #4 ever been involved in a bankruptcy or insolvency proceeding?

___Yes ___No

If yes, provide details in an attachment.

15. What dollar amount of Working Capital is available to your enterprise prior to the start of construction?

$_____

Explain the source of these funds:

_____
_____
_____

Include a copy of the Company's most recent audited financial statement.

16. How will project development bookkeeping and payroll be maintained: (check one)

a. By contract with an outside professional accounting firm: ____

Name: _____ Address: _____

_____ Telephone: _____

b. Records are to be kept by enterprise personnel: _____
If "b" has been checked--state the qualifications of

your personnel to perform this function:

_____

_____

_____

c. Other: _____

_____

_____

17. Trade References (include addresses and phone numbers):

_____

_____

18. Bank and credit references (including addresses and phone numbers):

_____

_____

_____

_____

_____

19. Indicate the core crew employees in your work force, their job titles, and whether they are Indian or Non-Indian. Core crew is defined as an individual who is either a current bonafide employee or who is not a current employee but who is regularly employed in a supervisory or other key skilled position when work is available.

_____

_____

_____

_____

_____

_____

b. Over the past three years, what has been the average number of employees:

_____

20. Attach certification by a tribe or other evidence of enrollment in a federally recognized tribe for each officer, partner or individual designated as an Indian in #4.

21. Attach a certified copy of the charter, article of incorporation, by-laws, partnership agreement, joint venture agreement and/or other pertinent organizational documentation..

22. Explain in narrative form the stock ownership, structure, management, control, financing, and salary or profit sharing arrangements of the enterprise, if not covered in answers to specific questions heretofore. Attach copies of all shareholder agreements, including voting trust, employment contracts, agreements between owners and enterprise. Include information on salaries, fees, profit sharing, material purchases, and equipment lease or purchase arrangements.

23. Evidence relating to structure, management, control, and financing should be specifically included. Also, list the specific management responsibilities of each principal, sole proprietor, partner, or party to a joint venture (as appropriate) listed in response to #4.

24. Attach evidence that the enterprise (or an individual in it) is appropriately licensed for the type of work that is to be performed. Include Federal ID Number.

25. Attach a brief resume of the education, technical training, business, employment, design and/or construction experience for each officer, partner or sole proprietor listed in #4. Include references.

NOTES:

I. Omission of any information may be cause for this statement not receiving timely and complete consideration.

II. The persons signing below certify that all information in this INDIAN ENTERPRISE QUALIFICATION STATEMENT, including exhibits and attachments, is true and correct.

III. Print and type name below all signatures.

If applicant is Sole Proprietor, Sign Below:

_____ _____

Name Date

If applicant is in a Partnership or Joint Venture, all Partners must sign below:

_____ _____

Name Date

_____ _____

Name Date

If applicant is a corporation, affix corporate seal

_____

Corporate Seal

By: _____ _____

President's Signature Date

Attested by: _____ _____

Corporate Secretary's Signature Date

WARNING: U.S. Criminal Code, Section 1010, Title 18, U.S.C. provides in part:

"Whoever...makes, passes, utters, or publishes any statement, knowing the same to be false...shall be fined not more than $5,000 or imprisoned not more than two years, or both."

ATTACHMENT E

Hualapai Professional Services Agreement

HUALAPAI TRIBAL NATION

PROFESSIONAL SERVICE CONTRACT

This Contract is made between the Hualapai Tribe, Department Planning Department**,** Peach Springs, AZ 86434 (the "Tribe"), and, _____**,** an independent contractor, whose address is_____.(Tax ID. No.)_____. (the "Contractor"). The Tribe agrees to contract for the service of Contractor and Contractor agrees to provide services, under the terms and conditions of this Contract.

1. Description of Services:

Contractor shall provide the following services to the Tribe:

Refer to proposal that lists Scope of Work to be accomplished.

(Scope of work attached to this contract)

2. Deliverables:

(List deliverable products listed in Scope of work attached to this contract)

In addition to the work described in the Statement of Work, Attachment 1, Contractor shall submit to the Tribe the following reports or other work products:

3. Payment for Services.

In full consideration of the personal services to be provided under this Contract, the Tribe agrees to pay Contractor as follows:

[ ] the fixed sum of $ _____for the services described in Attachment 1,

Statement of Work, or; in (monthly) progress payments of $_____, **Not to exceed $_____.**

[ ] at the rate of_____ $ per hour, up to maximum of $_____

per day, for services described in Attachment 1, Statement of Work, but not to exceed the sum of $_____ for all work under this Contract unless authorized in writing by the Tribe's_____. ~

As a precondition to receipt of any payments under this Contract, Contractor

must provide the Tribe with invoices detailing all work performed under this Contract since the previous invoice. Such invoices shall include a detailed description of services provided in the time period since the last invoice was submitted. Invoices shall be submitted to the Tribe: [] bi-weekly, or [X] monthly, or [ ] upon completion of the Contract: Contractor will be paid monthly according to monthly invoices submitted for payment. **Contract not to exceed $_____.**

Payment for approved invoices will be made within Thirty (30) days of receipt of such invoices by The Accounting Department of the Tribe. Final billing must be received within thirty (30) days of the completion or termination of this Contract. Contractor further agrees that final payment for his services will be made after a review of the work performed is completed by the Tribes Principal Contacts. If the work is found to be unsatisfactory, the Tribe reserves the right to withhold final payment indefinitely until all deficiencies are corrected.

4. Period of Performance.

This Contract shall commence on _____, and shall end on

_____, unless terminated earlier as provided in this Contract. This period of performance may be extended only by the written agreement of the Tribe and the Contractor. Contractor agrees that he is solely responsible for beginning and completing this Contract by the dates specified in this Contract. Contractor agrees that he shall be responsible for any costs to the Tribe associated with not completing this Contract by the scheduled ending date, unless unforeseen circumstances beyond control was caused by the management of the Tribe.

5. Principal Contacts.

All notices under this Contract shall be sent to the following designated Principal Contacts under this Contract. The Tribe may change its Principal Contacts at any time by written notification.

Tribe's principal contact:

Contracting Officer _____Mr. Kevin A. Davidson_____

Director,

Hualapai Planning Department

Compliance Officer _____Ms. Salena Siyuja _____

Hualapai Grants and Contracts Department

Contractor's principal contact: _____

Representative

Contractor and his work shall be monitored by the **Planning Department,** to determine whether the Contractor is in compliance with this Contract.

6. Independent Contractor.

It is understood and agreed that Contractor is an independent contractor with respect to all work to be performed under this Contract, and that Contractor is not an agent or employee of the Tribe. It is further understood and agreed that Contractor is not authorized to act on behalf of the Tribe, and that actions of Contractor are not actions of the Tribe.

Contractor will be responsible for providing all tools and equipment necessary to perform the tasks associated with this contract.

Contractor will be responsible for paying all employees or subcontractors he hires to perform any of the work under this Contract. Contractor's employees and subcontractors are not the employees of the Tribe. Contractor is solely responsible for paying his employees and subcontractors and for any obligation to payor withhold any federal, state, tribal, or local taxed on the amounts Contractor pays to his employees and subcontractors.

Contractor will be responsible for payment of all applicable federal, state, tribal and local taxed, and/or special levies required under unemployment insurance, social security, income tax, and/or other laws, with respect to Contractor's performance of his obligations and receipt of payment under this Contract. The Tribe will not withhold any taxes payable by the Contractor on the amounts paid to Contractor under this Contract.

Contractor and the Tribe shall each retain its right to conduct its own separate business affairs, provided that such affairs do not interfere with the parties' obligations under this Contract.

7. Representations and Warranties of Contractor.

Contractor represents and warrants to the Tribe that he is not subject to any obligations, contracts, or restrictions that would prevent him from entering into or carrying out the provisions

of this Contract. Contractor further represents and warrants that he has all of the qualifications, education, experience and skills required to complete the work intended to be completed under this Contract. If Contractor is not so qualified, his lack of qualification is grounds for immediate termination of this Contract by the Tribe without liability. Contractor shall devote his best efforts to carry out the work required by this Contract is accordance with the standard of care, skill and diligence normally adhered to by a person in this field providing similar services.

8. Termination.

This Contract may be terminated by either party at any time without cause by giving thirty (30) days advance written notice of such termination to the other party. Contractor shall only be paid for work performed and reasonably billed for prior to the effective date of termination except as may be stipulated in Attachment 1.

Contractor's obligations under Articles 9 through 11 shall survive, and shall not be affected by, termination of this Contract.

9. Indemnification.

Contractor shall be responsible for any wrongful or negligent acts or omissions performed by him, his employees or his subcontractors associated with his performance under this Contract and agrees to indemnify and hold the Tribe harmless from any liability or damage to person or property that arises from or is related to any such act or omission, including any attorney fees that may be incurred.

10. Confidentiality.

Contractor acknowledges that all information related to Contractor's work under this Contract, including all findings, reports, and other information either provided directly or indirectly by the Tribe in connection with the Contract or developed, compiled or created by Contractor in performing his services under this Contract, and all improvements made or conceived by Contractor under this Contract, is confidential and proprietary information owned by, and of great value to, the Tribe. Accordingly, Contractor agrees not to disclose any such confidential information to any person without the prior, written authorization of the Chairman of the Hualapai Tribe.

Regardless of how or when this Contract is terminated, within five (5) working days of completion of the work under this Contract, Contractor shall deliver to the Tribe all copies (including those on computer disk of other electronic medium) of all documents, drawings, specifications, and other materials or information which were furnished directly or indirectly by the Tribe to Contractor in connection with this Contract or which were prepared or acquired by

Contractor in performance of services under this Contract.

Contractor shall not use any of the proprietary information described in this paragraph for anyone other than the Tribe's benefit.

11. Intellectual Property.

The title to all work completed by Contractor under or associated with this Contract shall be in the Tribe. Contractor will promptly disclose to the Tribe all inventions, improvements, designs, publications and ideas made or conceived by Contractor in the course of or associated with providing services under this Contract, regardless of whether Contractor develops those inventions, improvements, designs, publications or ideas after the termination on this Contract. Contractor agrees to assign to the Tribe all right and title to all such inventions, improvement, designs, publications and ideas, and all copyrights, patents, and royalties associated with or derived from such ideas.

12. Amendment.

This Contract may be amended only by a written document signed by the Contracting Officer, the Grants and Contracts Compliance Officer to the Tribe and by the Contractor, and approved by the Chairman or Vice Chairman of the Tribe.

13. Assignment.

All rights and obligations under this Contract are personal to Contractor, and Contractor may not assign this Contract, or any rights or obligations hereunder, to any person. Any such attempted assignment shall be void.

14. Governing Law.

This Contract shall be governed by the laws and ordinances of the Hualapai Tribe. All claims arising under or related to this Contract shall be brought to the Contract Officer, Grants & Contract Officer then to the Hualapai Tribal Court.

CONTRACTOR:

By_____

Authorized Officer

HUALAPAI TRIBE:

By: _____

Planning Department Contract Officer

By: _____

Grants and Contracts Compliance Officer

By: _____

Chairman or Vice Chairman

Program to be charged:_____

Contract/Grant No.: _____

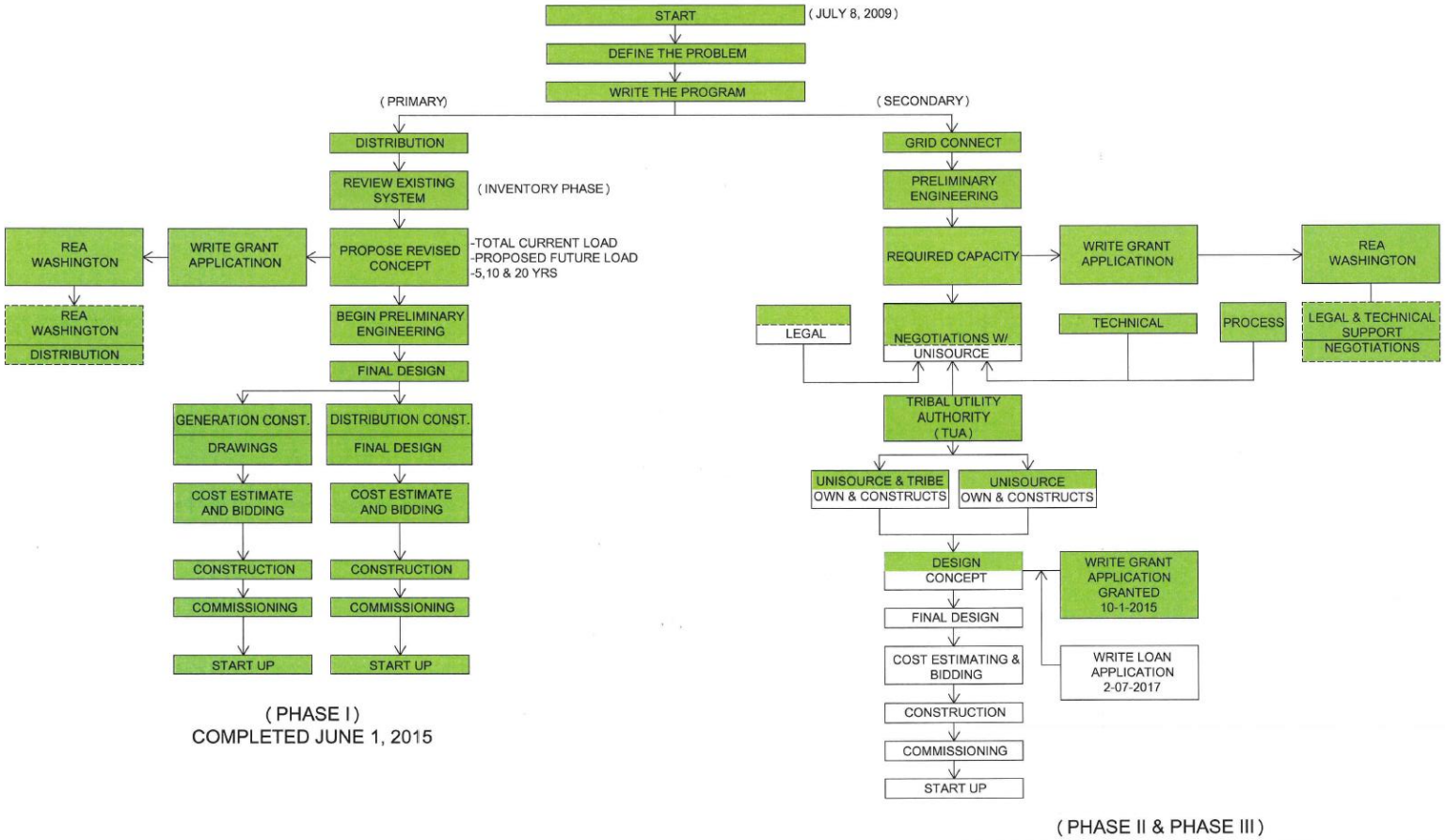
Line Item/ Account # :_____

ATTACHMENT F

HTUA Formation and Project Charts

HUALAPAI TRIBE
POWER PROGRAM FLOWCHART

PAGE 1 OF 1
L.A. SCHMITT, P.E.
DATED: 2-08-2017
REVISION G



VERIFY SCALE!
THESE PRINTS MAY BE REDUCED. LINE BELOW MEASURES ONE INCH ON ORIGINAL DRAWING
MODIFY SCALE ACCORDINGLY!

REVISIONS			
NO.		DATE	BY

TMAD TAYLOR & GAINES
- STRUCTURAL
- MECHANICAL
- ELECTRICAL
- CIVIL

4300 E. Miller Rd., Suite 122
Scottsdale, AZ. 85251
Phone: 602.371.1333
Fax: 602.371.0675

Expires 2-28-2018

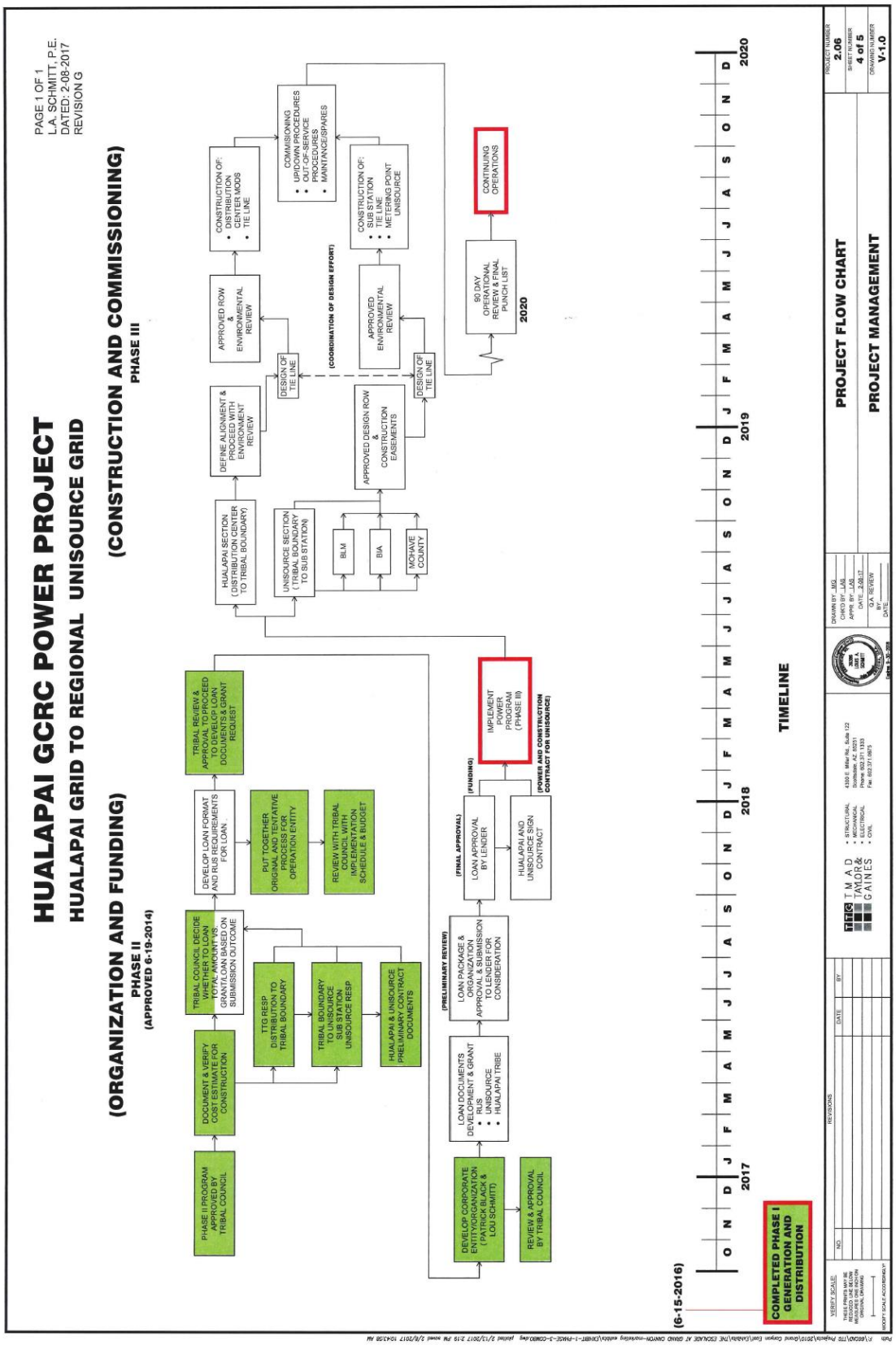
DRAWN BY: MG
CHK'D BY: LAS
APPR BY: LAS
DATE: 2-08-17
Q.A. REVIEW BY
DATE

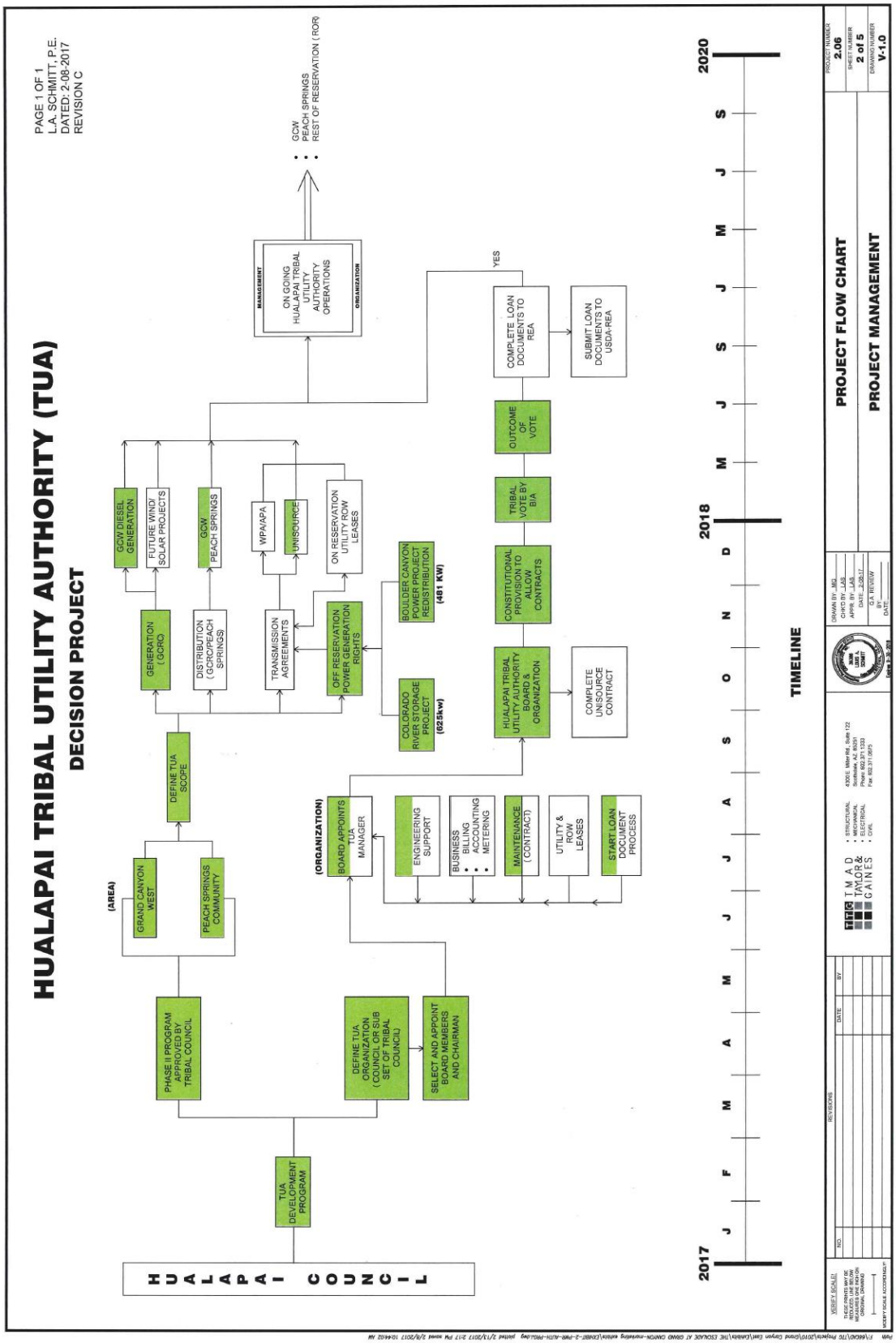
PROCESS FLOW CHART

PROJECT MANAGEMENT

PROJECT NUMBER **2.06**
SHEET NUMBER **1 of 5**
DRAWING NUMBER **V-1.0**

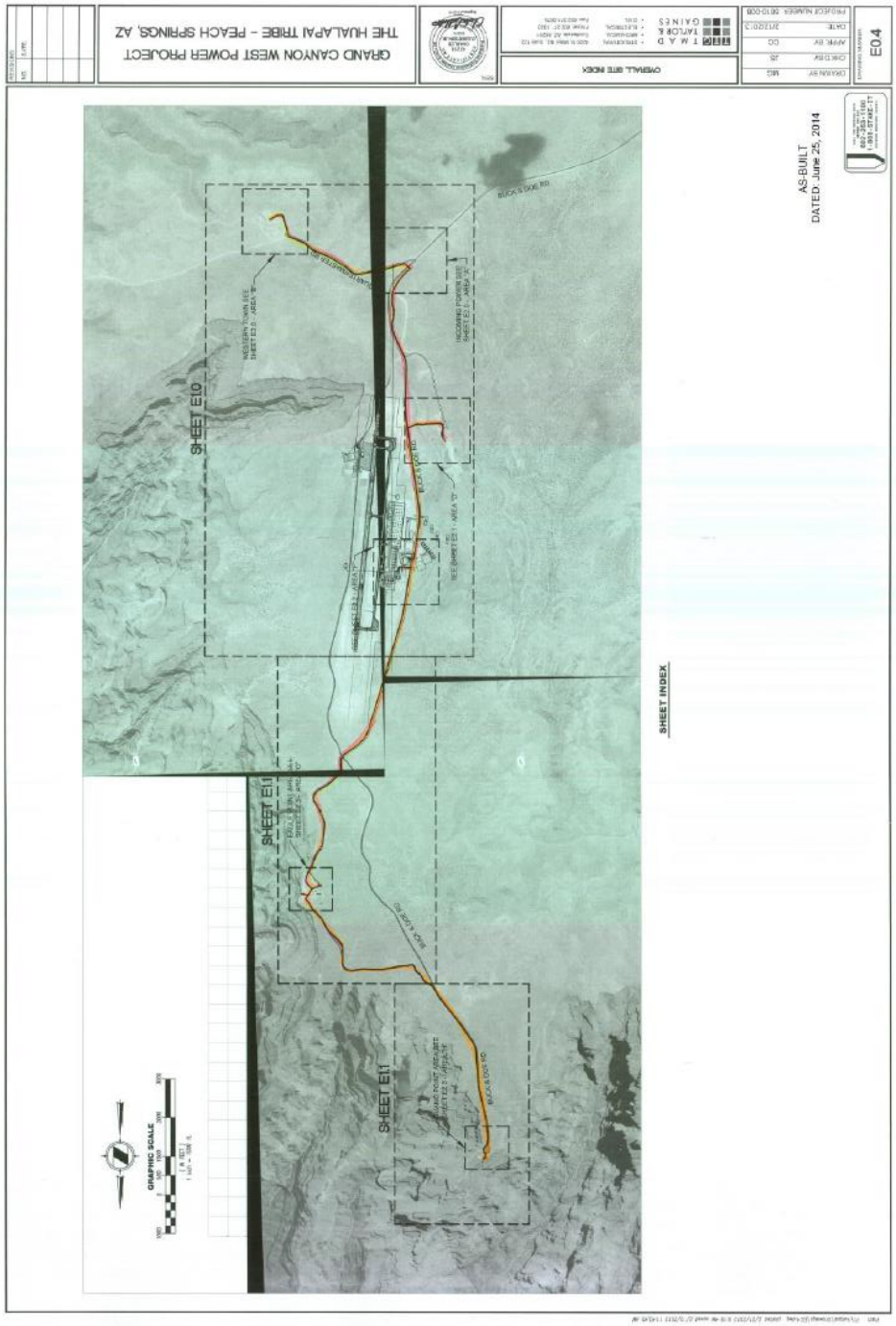
Path: F:\VISCAD\TTG Projects\2015\Grand Canyon East\Exhibits\THE ESCALADE AT GRAND CANYON-marketing exhibits\POWER PROGRAM FLOWCHART.dwg plotted 2/13/2017 2:15 PM saved 2/8/2017 10:43:51 AM


HUALAPAI GCRC POWER PROJECT
HUALAPAI GRID TO REGIONAL UNISOURCE GRID
PAGE 1 OF 1
L.A. SCHMITT, P.E.
DATED: 2-08-2017
REVISION G
(ORGANIZATION AND FUNDING)
PHASE II
(APPROVED 6-19-2014)
(CONSTRUCTION AND COMMISSIONING)
PHASE III
PHASE II PROGRAM APPROVED BY TRIBAL COUNCIL
DOCUMENT & VERIFY COST ESTIMATE FOR CONSTRUCTION
TRIBAL COUNCIL DECIDE WHETHER TO LOAN TOTAL AMOUNTS TO GRANT CONTRIBUTION SUBMISSION OUTCOME
DEVELOP LOAN FORMAT AND RUS REQUIREMENTS FOR LOAN
TRIBAL REVIEW & APPROVAL TO PROCEED TO DEVELOP LOAN DOCUMENTS & GRANT REQUEST
TTG RESP DISTRIBUTION TO TRIBAL BOUNDARY
TRIBAL BOUNDARY TO UNISOURCE SUB STATION & UNISOURCE RESP
HUALAPAI & UNISOURCE PRELIMINARY CONTRACT DOCUMENTS
PUT TOGETHER ORIGINAL AND TENTATIVE PROCESS FOR OPERATION ENTITY
REVIEW WITH TRIBAL COUNCIL WITH IMPLEMENTATION SCHEDULE & BUDGET
(PRELIMINARY REVIEW)
DEVELOP CORPORATE ENTITY ORGANIZATION (PATRICK BLACK & LOU SCHMITT)
REVIEW & APPROVAL BY TRIBAL COUNCIL
LOAN DOCUMENTS DEVELOPMENT & GRANT
• RUS
• UNISOURCE
• HUALAPAI TRIBE
LOAN PACKAGE & ORGANIZATION APPROVAL & SUBMISSION TO LENDER FOR CONSIDERATION
(FINAL APPROVAL)
LOAN APPROVAL BY LENDER
HUALAPAI AND UNISOURCE SIGN CONTRACT
(FUNDING)
IMPLEMENT POWER PROGRAM (PHASE III)
(POWER AND CONSTRUCTION CONTRACT FOR UNISOURCE)
HUALAPAI SECTION (DISTRIBUTION CENTER TO TRIBAL BOUNDARY)
DEFINE ALIGNMENT & PROCEED WITH ENVIRONMENT REVIEW
DESIGN OF TIE LINE
APPROVED ROW & ENVIRONMENTAL REVIEW
CONSTRUCTION OF:
• DISTRIBUTION CENTER/MODS
• TIE LINE
COMMISIONING
• UPIDOWN PROCEDURES
• OUT-OF-SERVICE PROCEDURES
• MAINTANCE/SPARES
UNISOURCE SECTION (TRIBAL BOUNDARY TO SUB STATION)
BLM
BIA
MOHAVE COUNTY
APPROVED DESIGN ROW & CONSTRUCTION EASEMENTS
(COORDINATION OF DESIGN EFFORT)
DESIGN OF TIE LINE
APPROVED ENVIRONMENTAL REVIEW
CONSTRUCTION OF:
• SUB STATION
• TIE LINE
• METERING POINT UNISOURCE
90 DAY OPERATIONAL REVIEW & FINAL PUNCH LIST
2020
CONTINUING OPERATIONS
(6-15-2016)
COMPLETED PHASE I GENERATION AND DISTRIBUTION
O N D J F M A M J J A S O N D J F M A M J J A S O N D
2017
2018
2019
2020
TIMELINE
TMAD TAYLOR & GAINES
• STRUCTURAL
• MECHANICAL
• ELECTRICAL
• CIVIL
4350 E. Miller Rd., Suite 122
Scottsdale, AZ 85251
Phone: 480.317.1313
Fax: 602.271.0875
REVISIONS
NO
DATE
BY
DRAWN BY: MG
CHKD BY: LAS
APPR BY: LAS
DATE: 2-08-17
Q.A. REVIEW
BY
DATE
PROJECT FLOW CHART
PROJECT MANAGEMENT
PROJECT NUMBER
2.06
SHEET NUMBER
4 of 5
DRAWING NUMBER
V-1.0
VERIFY SCALE
THESE PRINTS MAY BE REDUCED OR ENLARGED FROM THE ORIGINAL DRAWING
NOT TO SCALE ACCURACY


HUALAPAI TRIBAL UTILITY AUTHORITY (TUA)
DECISION PROJECT
PAGE 1 OF 1
L.A. SCHMITT, P.E.
DATED: 2-08-2017
REVISION C
HUALAPAI COUNCIL
TUA DEVELOPMENT PROGRAM
PHASE II PROGRAM PROVIDED BY TRIBAL COUNCIL
(AREA)
GRAND CANYON WEST
PEACH SPRINGS COMMUNITY
DEFINE TUA SCOPE
GENERATION (GCRG)
GCW DIESEL GENERATION
FUTURE WIND/ SOLAR PROJECTS
DISTRIBUTION (GCRG/PEACH SPRINGS)
GCW PEACH SPRINGS
TRANSMISSION AGREEMENTS
WPA/APA
UNISOURCE
OFF RESERVATION POWER GENERATION RIGHTS
ON RESERVATION UTILITY ROW LEASES
COLORADO RIVER STORAGE PROJECT (625kw)
BOULDER CANYON POWER PROJECT REINSTRIBUTION (451 KW)
(ORGANIZATION)
BOARD APPOINTS TUA MANAGER
DEFINE TUA ORGANIZATION (COUNCIL OR SUB SET OF TRIBAL COUNCIL)
SELECT AND APPOINT BOARD MEMBERS AND CHAIRMAN
ENGINEERING SUPPORT
BUSINESS : BILLING : ACCOUNTING : METERING
MAINTENANCE (CONTRACT)
UTILITY & ROW LEASES
START LOAN DOCUMENT PROCESS
HUALAPAI TRIBAL UTILITY AUTHORITY BOARD & ORGANIZATION
COMPLETE UNISOURCE CONTRACT
CONSTITUTIONAL PROVISION TO ALLOW CONTRACTS
TRIBAL VOTE BY BIA
OUTCOME OF VOTE
YES
COMPLETE LOAN DOCUMENTS TO REA
SUBMIT LOAN DOCUMENTS TO USDA-REA
MANAGEMENT
ON GOING HUALAPAI TRIBAL UTILITY AUTHORITY OPERATIONS
ORGANIZATION
GCW
PEACH SPRINGS
REST OF RESERVATION (ROR)
2017
2018
2020
J F M A M J J A S O N D J F M A M J J A S
TIMELINE
PROJECT FLOW CHART
PROJECT MANAGEMENT
PROJECT NUMBER 2.06
SHEET NUMBER 2 of 5
DRAWING NUMBER V-1.0
DRAWN BY MG
CHK'D BY LAS
APPR BY LAS
DATE 2-08-17
B.O.A. REVIEW
BY
DATE
TMAD TAYLOR & GAINES
STRUCTURAL
MECHANICAL
ELECTRICAL
CIVIL
REVISIONS
NO.
DATE
BY
VERIFY SCALE!
THESE PRINTS MAY BE REDUCED. USE BELOW INDICATED LINE TO VERIFY ORIGINAL DRAWING
NOT IN SCALE ACCORDINGLY

ATTACHMENT G

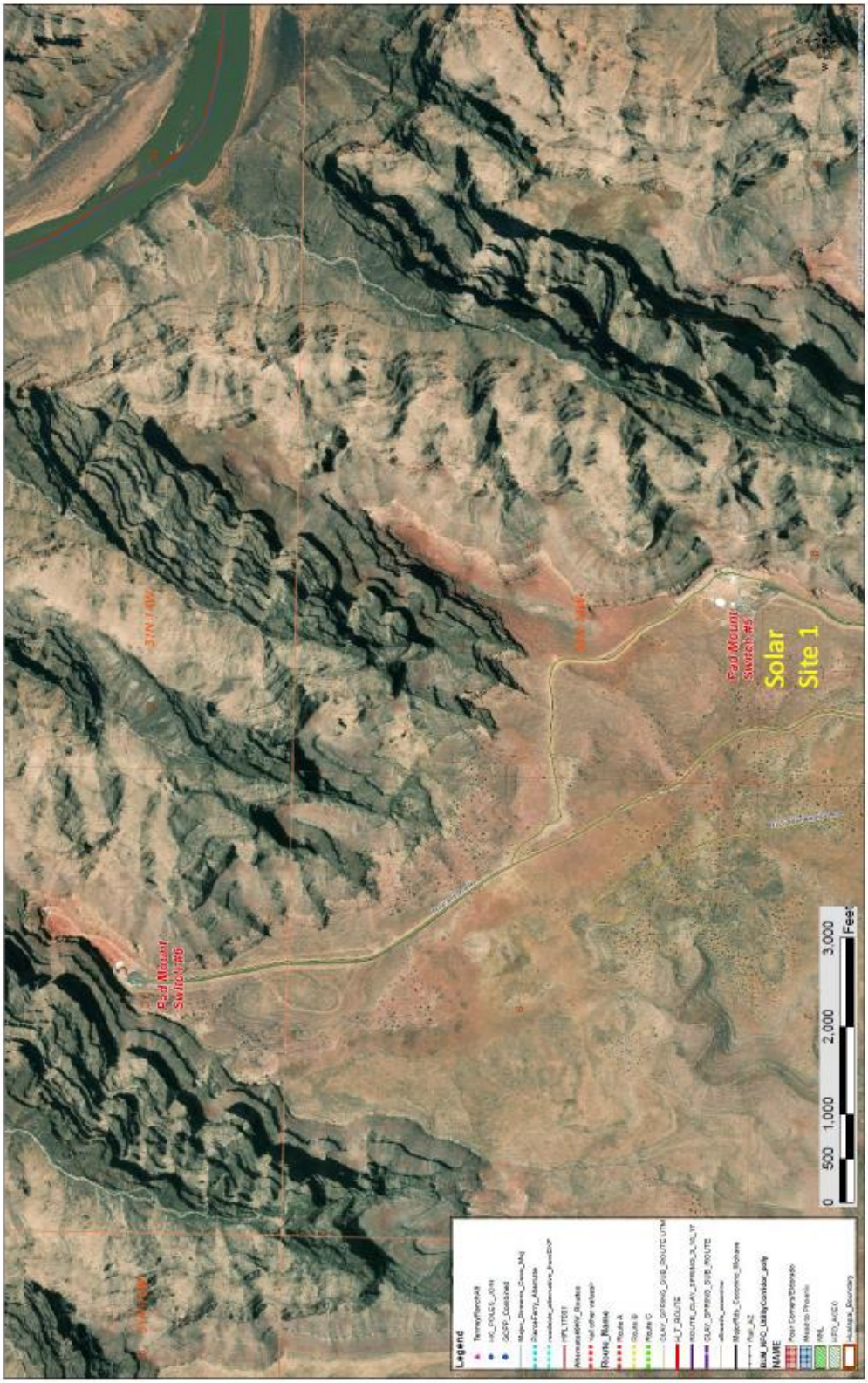
GCW Micro-Grid Plans



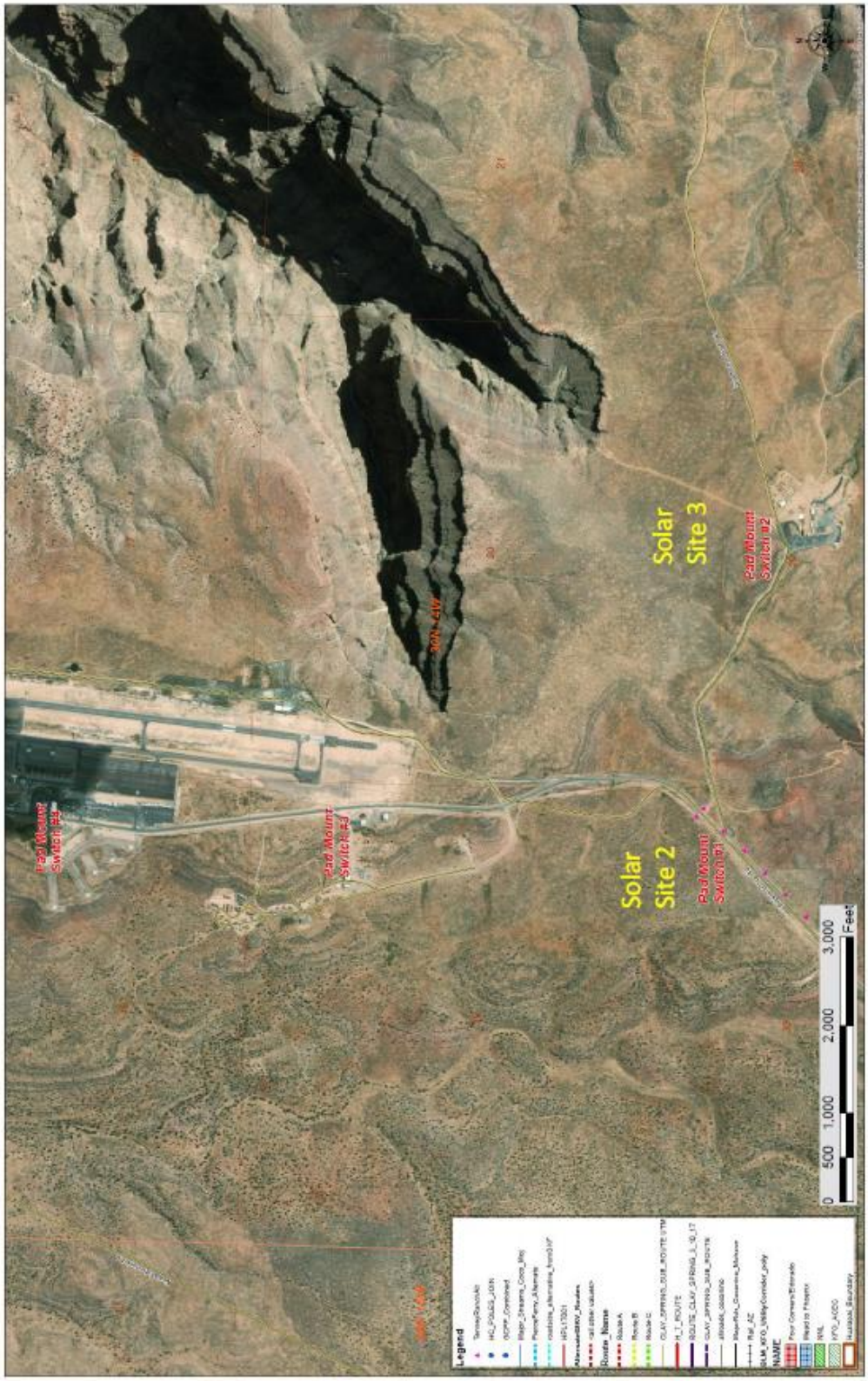
ATTACHMENT H

Potential Locations of Solar Power Plant

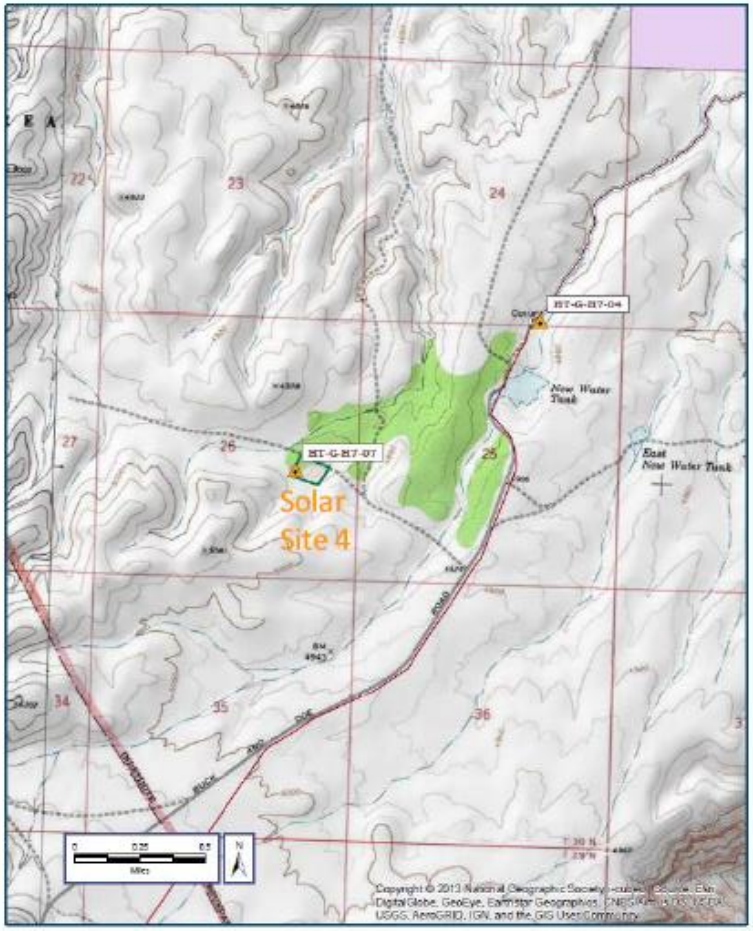
Potential Sites for Grand Canyon West Solar Array

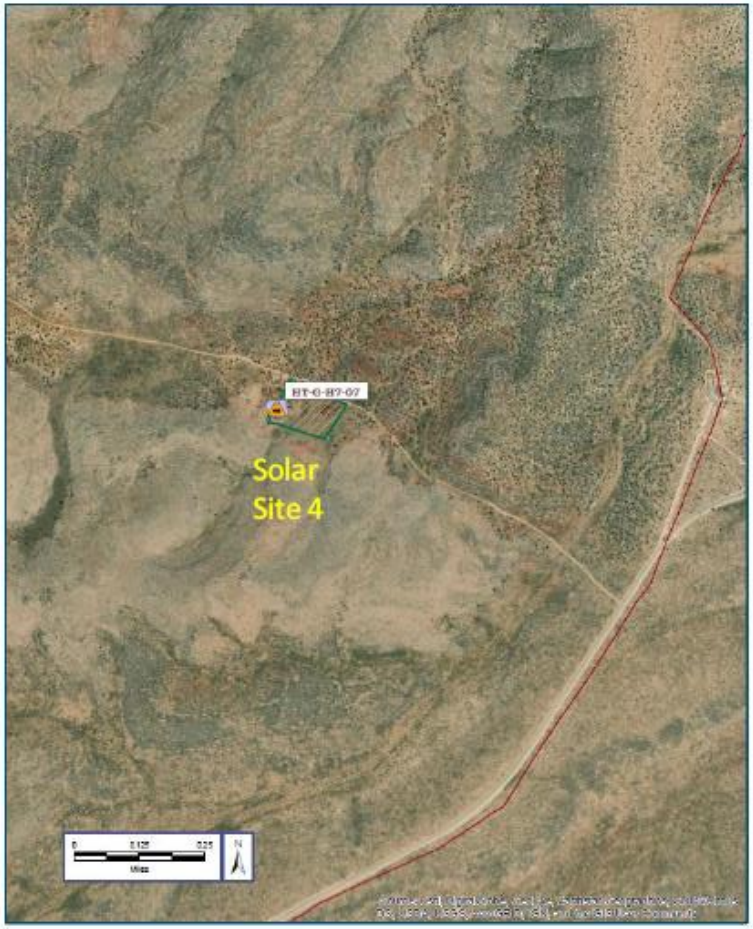


Potential Sites for Grand Canyon West Solar Array



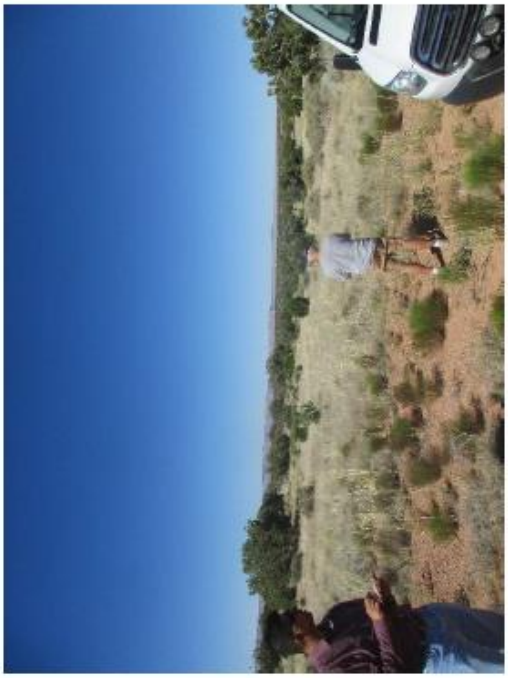
Potential Sites for Grand Canyon West Solar Array





Site One Photos – South of Skywalk

Site Two Photos – West of Diamond Bar Intersection

Site Three Photos – North of Western Town

Site Four Photos – Hidden Valley west of Diamond Bar