Question #1	Can the Government provide system data to allow the UP Contractor to calculate the system power factor on the Base? Are there any power factor penalties imposed on the Government presently by TVA for not maintaining a certain power factor? If so, will the UP Contractor be required to maintain a certain power factor on Base to meet the TVA power factor requirements?
Answer #1	AEDC power factor is dependent on the operation of the large synchronous motors. Any calculation would be overdriven by their operation. There are power factor penalties in the TVA Memorandum Of Understanding. The penalties become in effect at Peak if AEDC is leading and Minimum (at ¼ the peak) if power factor is worse then 0.95. The UP Contractor will not be required to maintain a certain power factor. AEDC will take the impact of how any configuration change affects the system power factor into consideration prior to approving the change.
Question #2	AAFB has 45 backup generators scattered across the base with the largest being 825 KW. (From CD) Should the UP Contractor assume that these will continue to be owned and operated by the Government?
Answer #2	AEDC will continue to own and operate the backup generators.
Question #3	Please provide a listing or the number of existing electrical personnel, by classification, and their qualifications, currently supporting the electric distribution system on the Base.
Answer #3	This information will not be provided. It is the responsibility of the offerors to make their own determination of how many electrical personnel, and their qualifications, that will be needed to operate and maintain the system.
Question #4	Can the Government provide a PCB survey, which reflects PCB tests for all oil filled equipment? Please provide a listing of PCB contaminated transformers and other oil filled equipment in service on Base?
Answer #4	A hard copy of the PCB survey will be made available during the upcoming site visit.
Question #5	There was no oil test data for the transformers, breakers, etc. on the CD. Can the Government provide this to potential bidders?
Answer #5	Oil test data is available. We presently have one hard copy which is for all of our oil filled equipment including equipment downstream of the demarcation point. We estimate that the data for all of the equipment is 1000 pages. AEDC will make this information available during the upcoming site visit.
Question #6	There was no outage data (date, time, cause, duration, etc…) on the CD. Can the Government provide this to potential bidders?

Answer #6	See "Item_2D J1.3.18d HO#.xls" on the CD. This shows a month by month hold orders count. A hold order is AEDC jargon for a lockout/tagout for work on normally energized equipment (date, time cause, duration, etc … are not currently available). This is a mix of work on the utility system and also work on the plant side. See "Item_2E J1.3.18e CO#.xls" on the CD for "caution orders" issued which other places sometimes call a Hot-line hold which restranes re-energizing or restoring power due to a trip out due to work being performed near an energized equipment.
Question #7	There was no relay test data on the CD. Can the Government provide this to potential bidders?
Answer #7	Added to the bidder's library under electrical is a file list of relays [relay-id.xls]. This test data will be available for review in the upcoming site visit.
Question #8	Please provide a current complete map of the electric distribution system.
Answer #8	Current maps will be made available during the upcoming site visit.
Question #9	If such data is available, please provide loading, conductor size, connected transformer kVA, etc., by line sections that correspond to the electric distribution system map, if available.
Answer #9	All of this information, except for loading, should be included on the maps referenced in question 9. Ref drawings 34E-0120
Question #10	Is a one-line map available for the electric distribution system? If so, please provide a copy.
Answer #10	One-line maps will be made available for review during the upcoming site visit.
Question #11	Please provide a copy of any planning studies performed for the Base including construction work plans, long range plans, sectionalizing studies, etc.
Answer #11	The existing information will be made available for review during the upcoming site visit.
Question #12	The RFP states that TVA, TUB, and Duck River provide electrical service to the Base and that the circuits owned by these utilities will not be included in the privatization effort. What is the operating voltage of the TUB and Duck River circuits? Are these circuits presently on any poles or in any ducts owned by the Government?
Answer #12	The TUB system nominal voltage is 13,000V line to line. TUB owns all equipment to the load side of the metering point. There are two service points, one at the Golf Course and one at the Tennis Courts. There is primary overhead circuit that will be privatized past the Golf Course interface. The electrical equipment at the Tennis Courts will not be privatized. The Duck River System nominal voltage is 24,940V line to line. Duck River owns all equipment to the load side of the metering point. There

	is only one service point at Woods Reservoir Dam. The electrical equipment at the Dam will not be privatized.
Question #13	The electric distribution system inventory listed in Attachment J1 shows overhead and underground conductor in quantities of units listed as "SCLF" which should mean "Single Conductor Linear Feet". Since Attachment J1 does not distinguish the phasing of the conductors (i.e. single-phase, vee-phase, three-phase, whether or not a neutral is included, etc…), can the Government provide the number of wires (i.e. "#2 ACSR, 3ph, 4 wire, 1,000, SCLF) for each line item conductor listing in the inventory? This information will be essential for pricing the conductor.
Answer #13	Reference drawings 34E-0210 will be made available during the upcoming site visit. The last pages include a pole to pole distance and conductor type description. The 13.8 KV distribution system is based on a single point wye configuration. Almost entirely the 13.8 KV distribution system is three-phased. There is one exception near the Girl Scout camp where it is two-phased. The overhead system does not have a neutral included. It does include a static wire for lightning protection which is undersized to act as a neutral.
Question #14	Are there any double or triple electric distribution circuits on Base presently? If so, please provide the approximate lengths of double circuits and triple circuits, respectively.
Answer #14	There are some places where multiple circuits cross at a single pole. No multiple circuit construction is in operation. There is one section with a 6.9kV circuit feeding TMT which is under-built on 13.8kV circuit poles for approximately 1000-feet. The 6.9kV circuit is presently out of service. Ref drawings 34E-0210.
Question #15	Please identify any areas on Base, where transformers are located inside of buildings or inside of vaults.
Answer #15	There are no transformers located in vaults. There are no power transformers located inside. The following distribution unit substations are located inside: BCE, VKF US 2, 3, 4, 10, FP&C, ETF Shop, ETF US 5, 6, 13, PWT US 4, 5, 6, 8, Warehouse #1, Power Control, A&E US 1, ETF US 8, 9, 14, ETF US3, 3A.
Question #16	Will the UP Contractor be allowed to accurately size the substation transformers at the time of replacement based on available load and metering data rather than replacing them with an identically sized unit, which may be oversized?
Answer #16	The UP Contractor will not be able to downsize any equipment based on existing loads without approval from AEDC. This decision will be based on AEDC's expected future needs.

Question #17	Section J1.3.4.3 of Attachment J1 states that the UP Contractor shall maintain fault studies and provide available fault currents at each point of demarcation. How often must this information be updated and who on Base might request this data from the UP Contractor? Is there a current fault study available for the Base right now? What year was it last updated? Please provide a copy if one is available.
Answer #17	The fault studies must be kept up to date to reflect current information. The frequency of the updates will be at the discretion of the UP contractor. Available fault currents at the demarcation points and trip settings for UP contractor equipment will be needed by AEDC personnel to maintain fault studies for equipment below the demarcation and to coordinate overcurrent protection. The existing studies will be made available for review at the upcoming site visit.
Question #18	Section J1.3.4.1 of Attachment J1 states "The UP Contractor shall receive approval to switch, backfeed, and perform other similar operations from the Tactical Integration Chairman (a Mission Support Contractor employee)." How does this clause apply to power restoration during an inclement weather situation, such as a severe storm?
Answer #18	It still applies.
Question #19	Attachment J1 states that secondary meters are to be calibrated annually with the reports being submitted to the Government. Does the Government presently calibrate all secondary meters and if so are the results available? If so, please provide a copy of the most recent test results.
Answer #19	No, the secondary meters are not currently on a calibration schedule.
Question #20	What kind of security clearances will be required for the UP Contractor's employees or contractors in order to work on the Base?
Answer #20	Refer to Section C of the RFP for this information.
Question #21	Can the Government provide additional information for the System Deficiency projects to aid bidders in preparing cost estimates for these projects?
Answer #21	Limited information will be made available on the System Deficiency projects at the upcoming site visit.