

**Amendment 0001  
BAA 09-034 entitled  
“Solid Oxide Fuel Cell Based Tactical Electric Power Demonstration”**

The purpose of this amendment is to provide answers to questions and extend the due date for receipt of proposals as shown below.

The due date for full proposals shown in Sections I.5 and IV.1 as well as the anticipated schedule of events shown in the table under Section IV.3 is revised as follows:

<b>Event</b>	<b>Date</b>	<b>Time (Eastern Time)</b>
Full FY09 Proposal Due Date	9/21/2009	2:00 pm
Notification of Selection for FY10 Award	10/19/2009*	
Issued FY10 Awards	3/1/2010*	

\*These dates are estimates as of the date of this announcement.

The following answers to questions are provided:

Question 1: Would ONR consider an approach where two systems with different SOFC technologies would be evaluated before downselecting the best technology to be further developed per ONR requirements described in the BAA 09-034?

Answer: As per the BAA 09-034, one award will be issued for a single SOFC TEP design and delivery of two identical prototypes. An Offeror may submit more than one proposal.

Question 2: How was the volumetric power density requirement calculated - it doesn't seem to match the volume and power specifications given. Is this for the system, stack, or some combination?

Answer: The gravimetric and volumetric density includes all components and packaging necessary to meet all specifications in BAA 09-034. Power electronics and fuel tank (dry) shall be included as part of the system. The system size is not to exceed 37 Inch Height, 62 Inch Length and 32 Inch width.

Question 3: Is there a maximum weight requirement or limitation?

Answer: The maximum weight requirement is represented in BAA 09-034 as Gravimetric Density (Dry) which is 35 Watts/Kilogram.

Question 4: Can we get a CAD drawing of the trailer?

Answer: We do not intend to make available a CAD drawing of the trailer at this time. A description and function of the LTT-MCC trailer will be posted.

Question 5: The requirement states 80 cold starts and 120 total starts - is there a definition of what a non-cold start is?

Answer: For this effort we will define a hot start (non-cold start) as one in which the stack temperature is greater than 200 C at the initiation of the start process.

Question 6: Will the results from the current project(s) from BAA 08-024 be made available for the proposal?

Answer: No, there are no results to make available at this time from BAA 08-024.

Question 7: What is the MMI interface referenced in the Remote Operation requirement?

Answer: The MMI (Man Machine Interface) to ensure safe operation and monitoring of the power source is to be defined by the vendor based on best commercial practices for operational control of the TEP and data monitoring/acquisition. We anticipate a wired connection of up to 200 feet for remote operational capability.

Question 8: Does the full 10-15kW output need to be available for either the single or three phase output? Is it intended to be one or the other? Would you like to do some power to both simultaneously?

Answer: The electrical output power is to be switchable to 120V I-Phase, 120/240V I-Phase and 120V/208V 3-Phase. The different electric output power modes will not be required to be generated simultaneously.

Question 9: For the gravimetric and volumetric requirements, I have assumed they are referencing the core fuel cell system, not including BOP components such as the power electronics, gas tank, etc., but just the volume of the TMI Hot Subassemblies, containing the fuel cell stacks and reformers. I believe this is the common practice the DOE uses on their roadmaps for SOFC APU gravimetric and volumetric density.

Answer: The gravimetric and volumetric density includes all components and packaging necessary to meet all specifications in BAA 09-034. Power electronics and fuel tank (dry) shall be included as part of the system. The system size is not to exceed 37 Inch Height, 62 Inch Length and 32 Inch width.