

## QUESTIONS AND ANSWERS

PLEASE REFER TO THE GENERAL FAQs SECTION OF ARPA-E'S WEBSITE ([HTTP://ARPA-E.ENERGY.GOV/?Q=FAQ/GENERAL-QUESTIONS](http://arpa-e.energy.gov/?q=faq/general-questions)) FOR ANSWERS TO MANY GENERAL QUESTIONS ABOUT ARPA-E AND ARPA-E'S FUNDING OPPORTUNITY ANNOUNCEMENTS. ADDITIONAL QUESTIONS SPECIFIC TO THIS FOA ONLY ARE INCLUDED BELOW. PLEASE REVIEW ALL EXISTING GENERAL FAQs AND FOA-SPECIFIC QUESTIONS BEFORE SUBMITTING NEW QUESTIONS TO ARPA-E.

### I. Concept Paper Phase Questions:

**Q1. CAN A SMALL COMPANY APPLY FOR AN SBIR (DE-FOA-0003419) AS WELL AS BE INCLUDED IN A TEAM APPLYING IN THE NON-SBIR CATEGORY (DE-FOA-0003419), MAKING CLEAR IN THE SUBMISSIONS OF THE OVERLAP AND UNDERSTANDING THAT IT CAN PARTICIPATE IN ONLY ONE AWARD?**

**ANSWER :** Yes, you may apply as the Prime Recipient for NEWTON FOA DE-FOA-0003419 and be a Project Team member (not the Prime Recipient) on NEWTON FOA DE-FOA-0003418. Per Section III. C. 4 of the FOA, you cannot apply to both FOAs as the Prime Recipient; Small business Applicants that qualify as a "Small Business Concern" may apply to only one of the two ARPA-E NEWTON FOAs.: DE-FOA-0003419 (NEWTON SBIR/STTR), or DE-FOA-0003418 (NEWTON).

**Q2. IN FOA 0003419 NEWTON,**

- 1) FOR CATEGORY B, THE CONCEPT SUMMARY AND THE DEFINITION OF CATEGORY B-TRANSMUTATION TARGETS IS GENERAL ENOUGH TO ALLOW SOME INNOVATIONS. HOWEVER, THE CATEGORY B OBJECTIVES SEEM TO BE A SMALL SUBSET OF WHAT IS POSSIBLE AND NEEDED OF THE ITEMS LISTED IN THE DEFINITION, ALLOWING ONLY THINGS THAT DEAL IN THE DETAILS OF WHAT IS NEEDED FOR A YUCCA MOUNTAIN REPOSITORY. IS THAT THE ONLY THING THAT WILL BE CONSIDERED OR IS THAT OBJECTIVE ONLY TO BE CONSIDERED AS AN EXAMPLE OF AN OBJECTIVE?**
  
- 2) THE BEAM TRIP REQUIREMENTS DISCUSSED FOR CATEGORY A SEEM TO RELY ON A STUDY THAT WAS DONE ON THE ASSUMPTION THAT THE FUEL ELEMENTS WERE SOLID RODS, LIKE THE MYRRHA REACTOR. \*\*\*REDACTED\*\*\*. CAN THERE BE AN EQUIVALENT PATH FOR A CONCEPT IN CATEGORY B THAT USES MOLTEN SALT FUEL TO EASE THE ACCELERATOR REQUIREMENTS?**
  
- 3) THE USUAL CRITERIA FOR JUDGING SBIR-STTR PROPOSALS HAVE INNOVATION AT THE TOP OF THE LIST. IS THIS TRUE FOR NEWTON SBIR-STTR GRANTS? OR IS IT TO BE REPLACED WITH PERHAPS SIMILAR IDEAS LIKE "DISRUPTIVE"?**

**ANSWER:**

1. Table 5 lists the objectives for category B. The objective of removal of 99.9% of MAs and 99% of ILFPs/LLFPs from the target materials is intended to be for the isotopes chosen from table 1, not necessarily Cs-137 and Sr-90 as outlined in reference 6.
2. The text on page 11 reads "targets are defined broadly as any material that contains UNF components to be transmuted, spallation target materials, or materials that can enable additional nuclear reactions to occur which results in transmutation of UNF components" this includes molten salt as in scope of this FOA.
3. See Section V.A.1 on page 38 of the SBIR/STTR FOA, concepts papers are reviewed on an equal basis of "impact of the Proposed Technology Relative to FOA Targets" and "Overall Scientific and Technical Merit."