

REQUEST FOR PROPOSAL (RFP)

1. INTRODUCTION

Date: 03/23/2026
RFP No.: PR451983
Amendment No.: 1
RFP Description: Graphite Rotary Furnace

Subject: RFP for the ORNL Fusion and Fission Energy and Science Directorate Graphite Rotary Furnace
In Response Refer to: RFP No. PR451983 Graphite Rotary Furnace

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Amendment 1 dated 03/23/2026 extends incorporates the following Questions & Answers:

Question	Answer
Is vacuum a requirement for this? What is the necessity of vacuum for this process?	Yes. The vacuum is needed to purge the chamber of trace air.
What is the intended production rate?	We aren't planning to have a continuous process, so I am not sure about the question. The goal is to have a single batch be 500g or more.
What is the bulk density and particle size of the kernels?	The kernels start out as microspheres with tap density of 0.5 to 1.25 g/cc and sizes ranging from 0.6mm to 5.0mm. Upon final conversion, the kernels will shrink by a factor of 1.5 to 4, resulting in diameters of 0.2 to 2.0mm. The final bulk density ranges from 1.5 to 14.5 g/cc.
What are the expected volatiles that evolve from this process?	Water, trace organics, CO, CO2
What is the project timeline?	This is still TBD.