## **Accepted Manuscript**

Determining the electrical and thermal resistivities of radiolytically-oxidised nuclear graphite by small sample characterisation

Matthew S.L. Jordan, Paul Ramsay, Karen E. Verrall, Tjark O. van Staveren, Matthew Brown, Bruce Davies, Athanasia Tzelepi, Martin P. Metcalfe

PII: S0022-3115(18)30026-6

DOI: 10.1016/j.jnucmat.2018.04.022

Reference: NUMA 50902

To appear in: Journal of Nuclear Materials

Received Date: 9 January 2018

Accepted Date: 17 April 2018

Please cite this article as: M.S.L. Jordan, P. Ramsay, K.E. Verrall, T.O. van Staveren, M. Brown, B. Davies, A. Tzelepi, M.P. Metcalfe, Determining the electrical and thermal resistivities of radiolytically-oxidised nuclear graphite by small sample characterisation, *Journal of Nuclear Materials* (2018), doi: 10.1016/j.inucmat.2018.04.022.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## Determining the electrical and thermal resistivities of radiolytically-oxidised nuclear graphite by small sample characterisation

Matthew S.L. Jordan <sup>a,\*</sup>, Paul Ramsay <sup>b</sup>, Karen E. Verrall <sup>a</sup>, Tjark O. van Staveren <sup>c</sup>, Matthew Brown <sup>d</sup>, Bruce Davies <sup>d</sup>, Athanasia Tzelepi <sup>b</sup>, Martin P. Metcalfe <sup>a</sup>

a National Nuclear Laboratory, 102 B Stonehouse Business Park, Sperry Way, Stonehouse, Gloucestershire, GL10 3UT, UK

b National Nuclear Laboratory, Central Laboratory, Sellafield, Seascale, Cumbria, CA20 1PG, UK

c Nuclear Research and Consultancy Group, Westerduinweg 3, 1755 LE PETTEN, The Netherlands

d EDF Energy Nuclear Generation Ltd., Barnett Way, Barnwood, Gloucester, GL4 3RS, UK

\* corresponding author msljordan-2@yahoo.co.uk

Keywords: Gilsocarbon, graphite, electrical resistivity, thermal resistivity, nuclear, thermal diffusivity

## Download English Version:

## https://daneshyari.com/en/article/7963166

Download Persian Version:

https://daneshyari.com/article/7963166

<u>Daneshyari.com</u>