

Reference: TTN2212.12

20 December 2022

H.E. Hulusi AKAR

Minister for National Defence, Republic of Türkiye

T.C. Milli Savunma Bakanlığı 06100 Bakanlıklar - Ankara, Türkiye

Telephone: +90 312 402 61 00 / Fax: +90 312 425 08 13 / Email: msb@hs01.kep.tr

Subject: Advancing the Defence of Türkiye with Leading Energy Generation Systems - Supercritical CO2 - with Rolls Royce and Cranfield University, United Kingdom

Dear Your Excellency, Hulusi Bey,

The Thorium Network and our consulting division **SAFE Fission Consult™** are sharing with you the viable and demonstrable means by which additional energy can be obtained from the defence machines of Türkiye. This is particularly applicable to the frigates of the navy of Türkiye.

Developed by Cranfield University and facilitated by Rolls Royce, UK, this technology uses Super Critical Carbon Dioxide to miniaturise power generation equipment. Hence it becomes ideal for vessels of limited space and large quantities of waste heat are generated. Recovery of this waste heat - up to 30% - may be possible using the technology developed at Cranfield University.

My intention of writing to you is to initiate discussions that may lead to the construction of a research facility in Türkiye (ideally with your Navy's Research and Development department) that accelerates the development and application of this technology with real world application for Türkiye and the world..

By engaging with this technology, Türkiye can become a world leader in such an advanced technology.

About our partners Cranfield University and Rolls Royce**Cranfield University - Cranfield.ac.uk**

Cranfield University is a British postgraduate public research university specialising in science, engineering, design, technology and management. Cranfield was founded as the College of Aeronautics in 1946. Through the 1950s and 1960s, the development of aircraft research led to growth and diversification into other areas such as manufacturing and management, and in 1967, founded the Cranfield School of Management. In 1969, the College of Aeronautics was renamed the Cranfield Institute of Technology, was incorporated by royal charter, gained degree awarding powers, and became a university. Cranfield University has two campuses: the main campus is at Cranfield, Bedfordshire, and the second is at the Defence Academy of the United Kingdom at Shrivenham, southwest Oxfordshire. The main campus is unique in the United Kingdom (and Europe) for having its own airport – Cranfield Airport – and its own aircraft, used for teaching and research.

Rolls Royce - Rolls-Royce.com

Rolls-Royce Holdings plc is a British multinational aerospace and defence company first established in 1904 which today designs, manufactures and distributes power systems for aviation and other industries. Rolls-Royce is the world's second-largest maker of aircraft engines (after General Electric) and has

major businesses in the marine propulsion and energy sectors. Rolls-Royce is also a major international defence contractor.

About The Thorium Network – TheThoriumNetwork.com

For background on The Thorium Network, our focus is the advancement of Energy Production from Molten Salt Fission Technology, and any associated technologies necessary for that development. Supercritical CO2 power generation is one such important application. Also important is advanced metal technology and manufacturing techniques, computer aided design (including Artificial Intelligence), fuel supply chain security using blockchain, and industrial cyber security.

Our additional activities in Turkey include to support knowledge and technology transfer with Türkiye via an agreement we presently have with TENMAK. Kindly refer to the attached letter from Prof. Dr. Abdulkadir BALIKÇI, president of TENMAK.

We have already introduced the technology to the Energy Institute of Istanbul Technical University. As a result of this introduction ITU has engaged a PhD student to work with Cranfield University on Super Critical Carbon Dioxide power generation technology over the next several years (the duration of their PhD).

I look forward to talking with you further on this important subject and making the appropriate introductions for cooperation and development between the appropriate parties.

Yours faithfully,

Jeremiah Josey
Executive Director
The Thorium Network
Jeremiah@TheThoriumNetwork.com / Contact@TheThoriumNetwork.com

CC:

H.E. Recep Tayyip ERDOĞAN, President of the Republic of Türkiye, Fax +90 312 525 58 31 Email cumhurbaskanligi@tccb.gov.tr / contact@tccb.gov.tr

Prof. Vassilios Pachidis, Head, Centre for Propulsion Engineering Director, Rolls-Royce UTC for Aero Systems Design, Integration & Performance School of Aerospace, Transport and Manufacturing

Mr. Phumzile Tshelane, CEO, SAFE Fission Consult™ - a division of The Thorium Network

Mr. Daniel Roderick, senior advisor at SAFE Fission Consult™. former President and CEO of Westinghouse and Toshiba Energy Systems,

Attachments:

- 1) Letter from TENMAK for Technology Transfer & Support from The Thorium Network

Attachment 1 - TENMAK Letter to The Thorium Network regarding Technology Transfer and Support

(Attachment)



**T.R.
TURKISH ENERGY, NUCLEAR AND MINERAL RESEARCH AGENCY**

Prof. Dr. Abdulkadir BALIKÇI
President
Turkish Energy, Nuclear and Mineral
Research Agency (TENMAK)

Mr. Jeremiah Emanuel JOSEY
Founder and CEO of the
Thorium Network
Rathausstraße 14, Baar, 6340,
SWITZERLAND

Our reference : E-94680352-030.03- 34187

Ankara, ..19..November 2021

Dear Jeremiah Emanuel JOSEY,

Please find enclosed signed original Turkish and English copies of the "Information Exchange and Confidentiality Agreement".

I wish a fruitful cooperation between TENMAK and the Thorium Network.

Yours sincerely,


Prof. Dr. Abdulkadir BALIKÇI
President

Enc.: As stated.