
 <p><b>Ciemat</b> Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas</p>	<p align="center"><b>ACTA</b> <i>MINUTES OF MEETING</i></p>	<b>Código/Code: AC-DTF-MF-1/23</b>
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## ACTA REUNIÓN / *MINUTES OF MEETING*

# PROVISION DE SERVICIOS ICTS-LNF

## *ICTS-LNF SERVICE PROVISION*

### November 2022-November 2023



<b>ELABORADO / WRITTEN:</b>	<b>REVISADO / CHECKED:</b>	<b>APROBADO / APPROVED:</b>
María González Viada	Nathalie Valle  Raquel González-Arrabal  Jose Ygnacio Pastor Caño  Fernando Sánchez Sanz  Alejandro Moroño  Arturs Zarins	Rafael Vila

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<b>Información de la reunión / Meeting Information</b>	
Fecha / Date	13 December 2023
Hora / Time	9:00 am
Lugar / Location	
Vídeo-Conferencia Video-Conference	<a href="https://zoom.us/j/95223489372?pwd=OW1CUWNlIdTkxaEs2MzNKV0VISOlrUT09">https://zoom.us/j/95223489372?pwd=OW1CUWNlIdTkxaEs2MzNKV0VISOlrUT09</a>



<b>Asistentes / Attendance:</b>	
Nombre / Name	Responsabilidad/Comentarios Role / Comments
J.Y. Pastor	UPM-ETSICCP, Spain. Committee member.
R. González-Arrabal	UPM-ETSII, Spain. Committee member.
N. Valle	LIST, Luxemburg. Committee member.
A. Zarins	UL, Latvia. Committee member.
A. Moroño	CIEMAT, Spain. Committee member.
F. Sánchez	CIEMAT, Spain. Committee member.
R. Vila	CIEMAT, Spain. Committee member.
G. Delgado	CIEMAT, Spain. Committee member.
M. González	Coordinator, CIEMAT, Spain. Committee member.

<b>Lista de Distribución (vía e-mail) / Distribution List (via e-mail)</b>	
J.Y. Pastor	UPM-ETSICCP, Spain. Committee member.
R. González-Arrabal	UPM-ETSII, Spain. Committee member.
N. Valle	LIST, Luxemburg. Committee member.
A. Zarins	UL, Latvia. Committee member.
A. Moroño	CIEMAT, Spain. Committee member.
F. Sánchez	CIEMAT, Spain. Committee member.
R. Vila	CIEMAT, Spain. Committee member.
G. Delgado	CIEMAT, Spain. Committee member.

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M. González	Coordinator, CIEMAT, Spain. Committee member.

<b>Historia del documento / Document History</b>			
[V.R]	Fecha/Date	Descripción del documento o modificaciones <i>Description of document or changes</i>	Realizado por <i>Made by</i>
v0.1	14/12/23	Borrador	M. González

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## 9th SCIENTIFIC COMMITTEE ON ACCESS TO THE ICTS LNF-DTF EQUIPMENT

\* ICTS stands for Scientific and Technical Singular Facility, in Spanish

\* LNF-DTF stands for Fusion National Lab-Fusion Technology Division

**Date:** 13 December 2023, 9.00hs

**To be held:** online meeting

<https://zoom.us/j/95223489372?pwd=OW1CUWNIdTkxaEs2MzNKV0VIS0lrUT09>

ID : 952 2348 9372

Access code : 705182

**Participants:** J.Y. Pastor (UPM-ETSICCP, Spain), R. González-Arrabal (UPM-ETSII, Spain), A. Moroño (CIEMAT), F. Sánchez (CIEMAT), R. Vila (CIEMAT), N. Valle (LIST, Luxemburg), A. Zarins (UL, Latvia) and M. González (CIEMAT, coordinator). G. Delgado (CIEMAT)

### Agenda.

#### i) Introducing the “new” members.

- a. The two non-Spanish members
- b. The next new member. Replacing me from January 2024.

First meeting in English due to the welcome online to two “new” committee members from other European countries. Being connected by email and working together for more than a year but is the first opportunity to meet all online. Welcoming words to Nathalie Valle (LIST, Luxemburg) and Arturs Zarins (UL, Latvia).



After all these years, and in response to my own request, the committee coordination and the ICTS-LNF-DTF relationships with the Ministry will change to Guiomar Delgado on January 2024 ... hopefully introducing new ideas in the management procedure, with time.

#### ii) Annual Ministry summary. Actions carried out

Back in December 2021, a report was received from the Ministry denoting a lack of internationalization in the proposals coming to use the LNF-DTF equipments. The report was commented in reference to other ICTSs and the LNF-Stellarator.

As was in the comments of committee members, the state is questionable:

- Although the applications are frequently issued from CIEMAT members, the real petitioners of the applications are foreign researchers who collaborate together with CIEMAT in EUROFUSION activities.

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An effort must be made towards the more visibility of the international (EUROfusion) origin of the received proposals in the following reports to the Ministry.

- Unlike TJII (*the fusion stellerator-type plasma machine*), it should be stressed that the DTF equipment is not so unique; we compete with equipment that is common in other labs.

Solutions implemented, to correct the lack of internationalization:

1. Inclusion into the committee of two members from other European countries. Immediate. Nathalie Valle and Arturs Zarins. Requires 100% completion of the application form in English by the solicitors. The interaction of members worked perfectly well. Through email communications. Effective approval of requests.
2. Commitment to publicity at fairs and international conferences: ICFRM20, ICFRM21, ISFNT15, ....
3. A second update of the website is pending, incorporating the improvements towards a more easy and direct finding of lab equipment.

All above mentioned will be stressed in the report to the Ministry by early 2024.

### iii) New features to remark:

Several of the DTF equipment and labs have been incorporated into the DTF quality system during the last 2 years. Recently, 2 internal audits were passed. Waiting for the external audit to get the final certification, in February 2024. Advantages: outcomes are now more traceable, ordered, verified/calibrated, ... with indicators that automatically generate a concern for the improvement of the system and its results

### iv) Equipment Upgrade and Upcoming acquisitions



Basically, just the acquisition of small maintenance equipment during 2023.

Acquisition management quite difficult at CIEMAT in 2023.

By 2024 ...

FSanchez comment on the SEM high rate of downtime due to maintenance and, above all, breakdowns which are difficult to identify. Moreover, the company warns of the shortage of spare parts ... any maintenance work having been particularly expensive along the years. The equipment is 10 years old, but the LNF-DTF does not believe it should be considered obsolete.

AMoroño comment on the Van der Graaff electron accelerator. The machine has recently passed an important milestone with success by demonstrating that the operators and supervisor could act as maintenance personnel, a strong requirement of the Nuclear Safety Council difficult to meet otherwise as it is a very old facility.

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v) Committee actions to take

The approval by all committee members of the summary of the **equipment used** is requested for the November 2022-November 2023 period. The list will be approved by signing this meeting minutes, since the summary is included in Annex 1.

The corresponding files are deposited in the folder DTF/Equipment, in the CIEMAT server <smb://cendat2.ciemat.es>.

Once the list has been verified, it is considered approved. It will be published on the web page <http://www.fusion.ciemat.es/acceso-instalaciones-competitivas/>.

vi) Other subjects

Questions/comments from the members?

RGonzález and JYPastor thank the committee for the management of the external LNF-DTF equipment offer and its organization. It is certainly not easy at many times in the context of a public administration, particularly in Spain.



NValle – due to the scarce content of some proposals received, she finds difficult to evaluate several of them. The committee is aware of this fact and proposals are frequently sent back to the requester / researcher for their completion. More emphasis will be made in this sense.

In particular, she suggests that the requester send her/his reference publications enclosed with the proposal. To easy the process, the inclusion of the DOI link of the publications will be requested as written in the excel document.

AMoroño – Related with the above comment, he suggests to advise the requesters with the need of a minimum and maximum number of words in the filling sections of the excel template.



NValle – She is keen to receive information about other steps that follows the process (of analyses achieved with DTF equipment) after the proposal evaluation. The procedure is explained, although the full explanation could be found in the proposal's excel pages. It is true, so far, that the committee members are involved only in the evaluation step; no information about the results or the report delivery timing is given to the members, nor on the relationships or collaborations that could arise as a result of researchers' contact with the LNF-DTF offered instrumentation. Interesting idea. Data exists as part of the quality system, and the information could be included and transmitted in future committee meetings.

NValle – Asks if the lab receives feedback on the service provided. As part of the quality system, surveys are sent to the external requesters. The answers are included in a study. If the data can

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be made public (will be consulted), the findings could also be included in future committee meetings.



With no further business to discuss on the agenda, the meeting was concluded after setting JUNE 2024 (in six months' time) for the next intermediate meeting of the Committee, as requested by members from the Spanish universities, lesser engaged in June.

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## ANNEX I

### Table of Granted Access in November 2022 - November 2023 period



CALL FOR PROPOSALS	DESCRIPTION	APPLICANT	APPLICANT ENTITY	PROJECT	TYPE OF PROJECT	ACCESS_CODE
<b>2022</b>						
DTF_Proposals for time booking_2022 S2	Radiation induced Helium desorption from alumina coating during electron irradiation	A. Moroño	ICTS-CIEMAT	EUROfusion	Internacional	VDG-AMO-07-2022-1
DTF_Proposals for time booking_2022 S2	Microstructural characterization of brazed joints between tungsten and Eurofer 97 with cupronickel alloys for DEMO's first wall	V. Díaz	URJC	EUROfusion	Internacional	SEM-VDM-07-2022-1
DTF_Proposals for time booking_2022 S2	RADIATION BEHAVIOUR OF ZRO2 AND SPINEL	M. González	ICTS-CIEMAT	EUROfusion	Internacional	VDG SIMS SEM-MGZ-09-2022-2
DTF_Proposals for time booking_2022 S2	Determination of TiO2 coating thickness and roughness on glass substrates by profilometry	S. Suárez	ICTS-CIEMAT	NOVELCOV-19	Nacional	PROFILEMETER BRUKER-SSG-09-2022-2
DTF_Proposals for time booking_2022 S2	Microstructural characterization of brazed joints between tungsten and Eurofer 97 with copper alloys fillers for DEMO's first wall	J. de Prado	URJC	EUROfusion	Internacional	SEM-JPO-07-2022-1

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DTF_Proposals for time booking_2022 S2	Characterization of AlN <sub>x</sub> coatings after COES and SiC coatings deposited by magnetron sputtering	G. de la Cuerda	UPM	Technofusion III	Regional	SEM-EDX-GCV-10-2022-01
DTF_Proposals for time booking_2022 S2	Determination of the surface conductivity in thin films of copper nitride fabricated by magnetron sputtering.	S. Fernández	ICTS-CIEMAT	SCALED	Nacional	VDG-SFZ-10-2022-1
DTF_Proposals for time booking_2022 S2	Evaluation of oxidation/contamination or microstructural modification in Eurofer samples after deuterium/hydrogen permeation tests	M. Malo	ICTS-CIEMAT	EUROfusion	Internacional	SEM-MMO-10-2022-1
DTF_Proposals for time booking_2022 S2	Characterization of different alloys exposed to PbLi for 168 hours	T. Hernández	ICTS-CIEMAT	IONFUS V	Nacional	SEM-THZ-10-2022-7
DTF_Proposals for time booking_2022 S2	Characterization of ODS steel from CEIT	M. Roldán	ICTS-CIEMAT	EUROfusion	Internacional	SEM-MRN-11-2022-1
DTF_Proposals for time booking_2022 S2	Microstructural characterization by EBSD of new aluminium alloys suitable for additive manufacturing	C. Cepeda	CENIM-CSIC	RAPIDAL	Nacional	SEM-CPA-11-2022-1
DTF_Proposals for time booking_2022 S2	Permeation measurement under irradiation of AlFe coating on Eurofer	T. Hernández	ICTS-CIEMAT	EUROfusion	Internacional	SEM-THZ-11-2022-8
DTF_Proposals for time booking_2022 S2	Surface conductivity measurements under irradiation	T. Hernández	ICTS-CIEMAT	EUROfusion	Internacional	SEM-THZ-11-2022-9

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DTF_Proposals for time booking_2022 S2	Analisis del perfil de concentracion de fosforo en profundidad mediante SIMS	E. Barrera	Photon Export	Empresa	Privada	SIMS-EBA-12-2022-1
<b>2023</b>						
DTF_Proposals for time booking_2023 S1	Microstructural characterization by SEM/EDX of new Ti-based sputtered coatings with improved corrosion resistance	E. Frutos	UCM	SONATA	Nacional	SEM-EFS-01-2023-1
DTF_Proposals for time booking_2023 S1	Microstructural characterization of new surfaces modifications with improved corrosion resistance against molten salts	M.T. de Miguel	UCM	PID2020-115866RB-C22	Nacional	SEM-EFS-01-2023-2
DTF_Proposals for time booking_2023 S1	Fatigue tests in Eurofer subjected to Li ceramics corrosion	T. Hernández	ICTS-CIEMAT	EUROfusion	Internacional	SEM-THZ-02-2023-1
DTF_Proposals for time booking_2023 S1	Perovskite solar cells under electron irradiation	B. Arredondo	URJC	RAMEM S.A.	Privada	VDG-BAC-02-2023-1
DTF_Proposals for time booking_2023 S1	MILLING OF ION DAMAGED CERAMIC ACB LAMELLAE	M. González	ICTS-CIEMAT	EUROfusion	Internacional	SEM-FIB-MGZ-02-2023-1

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DTF_Proposals for time booking_2023 S1	Determination of the Li diffusion profile on PLD alumina by SIMS	F. Sánchez	ICTS-CIEMAT	EUROfusion	Internacional	SIMS-FSZ-03-2023-1
DTF_Proposals for time booking_2023 S1	Microstructure determination of Fe and W samples implanted.	G. Delgado	ICTS-CIEMAT	Technofusion III	Regional	SEM-GDS-04-2023-1
DTF_Proposals for time booking_2023 S1	Microstructural characterization of 316L stainless steel (ss) fabricated by Laser Powder Bed Fusion (LPBF) using different modifications during the process.	J. Bedmar	URJC	Proyecto AEI	Nacional	SEM-JBR-04-2023-1
DTF_Proposals for time booking_2023 S1	OLMAT samples analysis: liquid metals in porous systems, fatigue damage and laser irradiation effects	D. Alegre	ICTS-CIEMAT	OLMAT-EUROfusion	Internacional	SEM-DAE-04-2023-1
DTF_Proposals for time booking_2023 S1	Corrosion of ceramics materials by LiPb	T. Hernández	ICTS-CIEMAT	EUROfusion	Internacional	SEM-THZ-04-2023-2
DTF_Proposals for time booking_2023 S1	Determination of the structure and the composition homogeneity of copper nitride thin films fabricated by reactive magnetron sputtering for solar device designs.	S. Fernández	ICTS-CIEMAT	SCALED	Nacional	SEM-SFZ-04-2023-1
DTF_Proposals for time booking_2023 S1	Cross section verification of four superconducting wires.	J. Alonso	ICTS-CIEMAT	IFMIF-LiPAC	Internacional	CONF-JAO-04-2023-1

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DTF_Proposals for time booking_2023 S1	Characterization of SiC coatings deposited by magnetron sputtering submitted to thermal cycling experiments	G. de la Cuerda	UPM	EUROfusion	Internacional	CONF-GCV-06-2023-01
DTF_Proposals for time booking_2023 S1	MEASUREMENTS OF PERMEATION UNDER IRRADIATION OF DIFFERENT COATINGS	E. Carella	ICTS-CIEMAT	TITANS	Internacional	VDG-ECA-05-2023-1
DTF_Proposals for time booking_2023 S1	Characterization of SiC coatings deposited by magnetron sputtering submitted to thermal cycling experiments	G. de la Cuerda	UPM	EUROfusion	Internacional	CONF_PROF-GCV-06-2023-02
DTF_Proposals for time booking_2023 S2	Weld characterization in Eurofer	T. Hernández	ICTS-CIEMAT	EUROfusion	Internacional	SEM-THZ-07-2023-3
DTF_Proposals for time booking_2023 S2	Sample preparation of irradiated materials by means of Focused Ion Beam	E. Oñorbe	ICTS-CIEMAT	AFORMAR	Nacional	SEM-EOE-08-2023-1
DTF_Proposals for time booking_2023 S2	OLMAT samples analysis: fatigue damage and redeposition	D. Alegre	ICTS-CIEMAT	OLMAT-EUROfusion	Internacional	SIMS-DAE-09-2023-2
DTF_Proposals for time booking_2023 S2	MEASUREMENTS OF PERMEATION UNDER IRRADIATION OF DIFFERENT COATINGS	E. Carella	ICTS-CIEMAT	INNUMAT	Internacional	VDG-ECA-10-2023-1
DTF_Proposals for time booking_2023 S2	MEASUREMENTS OF PERMEATION BEFORE AND AFTER IRRADIATION OF AL2O3 COATINGS	E. Carella	ICTS-CIEMAT	EUROfusion	Internacional	VDG-ECA-10-2023-2

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DTF_Proposals for time booking_2023 S2	Evaluation of the surface, crystalline structure and composition in Yttrium samples after surface treatments with HF, deuterium loading and TDS	M. Martínez	ICTS-CIEMAT	IFMIF-DONES	Internacional	SEM-MMZ-11-2023-1
DTF_Proposals for time booking_2023 S2	Analysis of metallic membranes with different treatments for permeation experiments	M. Malo	ICTS-CIEMAT	EUROfusion	Internacional	SEM-MMO-11-2023-1

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<b>Firma de asistentes / Participants' digital sign:</b>	
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