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ACTA REUNIÓN / MINUTES OF MEETING
PROVISION DE SERVICIOS ICTS-LNF <i>ICTS-LNF SERVICE PROVISION</i> July 2024 - June 2025

ELABORADO/ <i>WRITTEN</i> :	REVISADO/ <i>CHECKED</i> :	APROBADO/ <i>APPROVED</i> :
Guiomar Delgado Soria	María González Viada Nathalie Valle Raquel González-Arrabal Alejandro Moroño Arturs Zarins Fernando Sánchez Sanz	Fernando Sánchez Sanz

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Información de la reunión / Meeting Information	
Fecha / Date	17 September 2025
Hora / Time	15:00 p.m.
Lugar / Location	Online
Vídeo- Conferencia Video- Conference	https://us05web.zoom.us/j/84009974454?pwd=I4OASp9zGAN4OCH1OB75bqub0ix1gW.1

Asistentes / Attendance:	
Nombre / Name	Responsabilidad/Comentarios Role / Comments
A. Zarins	UL, Latvia. Committee member.
N. Valle	LIST, Luxemburg. Committee member.
R. González-Arrabal	UPM-ETSII, Spain. Committee member.
A. Moroño	CIEMAT, Spain. Committee member.
M. González	CIEMAT, Spain. Committee member.
F. Sánchez	CIEMAT, Spain. Committee member.
G. D. Soria	Coordinator, CIEMAT, Spain. Committee member.



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J. Y. Pastor	UPM-ETSICPP, Spain. Committee member.
A. Moroño	CIEMAT, Spain. Committee member.
M. González	CIEMAT, Spain. Committee member.
F. Sánchez	CIEMAT, Spain. Committee member.
G. D. Soria	Coordinator, CIEMAT, Spain. Committee member.

Historia del documento / *Document History*

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11th 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: 17 September 2025, 15.00hs

To be held: online meeting

<https://us05web.zoom.us/j/84009974454?pwd=l4OASp9zGAN4OCH1OB75bqub0ix1gW.1>

Participants: A. Zarins (UL, Latvia), N. Valle (LIST, Luxemburg), R. González-Arrabal (UPM-ETSII, Spain), A. Moroño (CIEMAT), F. Sánchez (CIEMAT), M. González (CIEMAT) and G. D. Soria (CIEMAT, coordinator).

Agenda.

i) Introduction



At the start of the virtual meeting, Fernando Sanchez, María Gonzalez, and Arturs Zarins joined the session. They were later followed by Alejandro Moroño and Raquel Gonzalez Arrabal, and subsequently by Natahalie Valle. This staggered participation was due to technical issues with Zoom connectivity and an unexpected change in the session link. Jose Maria Pastor remained in the original session due to a link mix-up and, consequently, was unable to attend the meeting.

During the pre-meeting, participants were thanked for both their attendance and their continued contributions as members of the committee. A presentation was then shared, outlining the agenda and key topics to be addressed during the session.

ii) ICTS 2021-2024

The committee was informed that, earlier this year, a report was submitted to the Ministry containing statistical data and quantitative indicators related to the proposals received for access to the ICTS LNF-DTF infrastructure. Raquel Gonzalez Arrabal noted a decline in the figures for 2024; however, this was attributed to the dataset only covering the first half of the year.

Furthermore, a table summarizing the scientific output over the past four years was presented, including peer-reviewed publications, international reports, and conference contributions, totaling approximately 100 outputs.

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So far, the Ministry has not made any official statement regarding this document. However, through several meetings held with the head of our unit, a positive dynamic for the ICTS service has been established, albeit still facing the same challenge related to internationalization.

iii) Follow-up of the petitions requested in the second half of 2024 and the first semester of 2025

A table and a graph were presented, showing the number of proposals received nationally and internationally over two periods. The total number of proposals received, 39, indicates a significant increase in submissions during the first semester of 2025 (23 proposals) compared to the second part of 2024 (16 proposals). This rise can be attributed to several factors:

- The resumption of the electron microscope's operation, which became functional again in August 2024.
- An enhancement in requests related to both national and international projects, along with a higher number of final-year undergraduate and master's students.

It is also noted that international requests predominantly relate to collaborations within the Eurofusion program. The good practice of the techniques offered by the ICTS is emphasized, supported by quality system parameters such as the elapsed time between analysis and reporting, benchmarked against reference indicators for each technique.

Annex I provides a comprehensive overview of the proposals for these periods. As illustrated in the table presented herein, the description of the proposals enumerates the following: the petitioner, the applicant entity, the project, the national or international origin, and the access code associated with the request.



At this point in the meeting, Raquel González Arrabal mentions she must leave the session due to another scheduled meeting.

iv) State of scientific equipment

Regarding the equipment status, it was reported that both the Scanning Electron Microscope (SEM), operational since mid-August 2024, and the Van de Graaff accelerator are functioning properly. The Secondary Ion Mass Spectrometry (SIMS) system is also fully operational, with the acquisition of a turbomolecular pump for the analysis chamber. However, it was noted that the primary cesium source requires replacement or repair.

v) UNE ISO 9001 Quality Certificate

As presented in previous slides, the techniques offered by the National Fusion Laboratory, including SIMS, SEM, and Van de Graaff irradiation, comply with the UNE ISO 9001 quality management system. The external audit conducted by Aenor in February 2025 was satisfactory.

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vi) Improvements to the application system

The committee was advised of plans to modernize the application process for techniques by requesters through the implementation of an online platform or application.

- a. In September of this year, an external company, Automaticity Solutions, proposed an application based on Microsoft 365 Copilot. However, due to the high budget quoted, the administration rejected the proposal.
- b. The alternative currently being explored, which appears more promising, is an application developed by Dr. Marcelo Roldán from CIEMAT institution. This system includes three interfaces: user registration, technique application submission, and a review panel to track the process. The committee will also have access to this system for proposal evaluations. The application is still in development and undergoing necessary testing. If approved for implementation, a meeting will be organized to present the application's functionality and the protocols to be followed, explained by Dr. Roldán, the administrator.

vii) Advertising



The slide outlined the conferences where CIEMAT anticipates participation, providing opportunities for both national and international promotion and dissemination of the ICTS LNF-DTF. These include:

- *22nd International Conference on Fusion Reactor Materials*
- *Laserlab-Europe & RADIATE Users' meeting in Nanoscience*
- *International Symposium on Fusion Nuclear Technology*
- *Big Science Industry Forum Spain 2025 (BSIFS2025)*

The latter holds particular significance as it gathers all national technology centers. CIEMAT, in addition to presenting a poster featuring associated techniques, will have an informational stand for all petitioners who may be interested.



viii) Outsourcing ideas

Finally, it was indicated forward-looking strategies for improving and quantifying the externalization of the ICTS service for the 2025–2028 period. Key proposals include the quality certification relevance for data accuracy, incorporating new facilities such as OLMAT and Liquid Metal Laboratories, and updating the laboratory website with comprehensive equipment descriptions and virtual tours. Enhanced dissemination through networking platforms and collaborations—as well as initiatives to increase participation among CIEMAT colleagues and partner centres—were identified as priorities. Continued promotion of competitive access via EUROfusion, international, and national projects was also recommended.

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ix) End of the meeting



The meeting concluded with sincere thanks extended to all participants for their attendance. As with the previous evaluation committee meeting, the videoconference ended after 40 minutes due to Zoom's time restrictions; however, future meetings will proceed without such limits. Before adjourning, the committee was informed that the presentation would be shared, allowing members to direct any questions to the coordinator.

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ANNEX I

Table of Granted Access in July 2025 - June 2025 period



CALL FOR PROPOSALS	DESCRIPTION	APPLICANT	APPLICANT ENTITY	PROJECT	TYPE OF PROJECT	ACCESS CODE
2024						
DTF_Proposals for time booking_2024 S2	Characterization of morphology, defects, deposition rate and Zr content in ternary SiC-Zr coatings deposited by co-sputtering	Guillermo de la Cuerda	IFN-GV - UPM	Programa de Excelencia para el Profesorado Universitario of the CAM	International	SEM-GCV-08-2024-1
DTF_Proposals for time booking_2024 S2	Calibration of Li measurement in SIMS using samples of known Li content	Guillermo de la Cuerda	IFN-GV - UPM	TITANS	International	SIMS-GCV-08-2024-2
DTF_Proposals for time booking_2024 S2	Displacement damage effect for the electron irradiation of optical materials	Alejandro Morono Guadalajara	ICTS-CIEMAT	EUROfusion mat-funtional materials	International	VDG-AMO-09-2024-1
DTF_Proposals for time booking_2024 S2	Meeasurements of permeation before and after irradiation of SiC coatings	Elisabetta Carella	ICTS-CIEMAT	TITANS	International	VDG-ECA-09-2024-1
DTF_Proposals for time booking_2024 S2	Characterization of U-shape specimens exposed to lithium ceramics	Teresa Hernandez	ICTS-CIEMAT	Eurofusion WPBB	International	SEM-SIMS-CONF-THZ-2024-03

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DTF_Proposals for time booking_2024 S2	Microstructure study of W and CuCrZr samples implanted with D at different energies	Guiomar Delgado Soria	ICTS-CIEMAT	Grant Agreement No 101052200 — EUROfusion	International	SEM-GDS-09-2024-1
DTF_Proposals for time booking_2024 S2	Microstructure study of W and CuCrZr samples implanted with D at different energies	Guiomar Delgado Soria	ICTS-CIEMAT	Grant Agreement No 101052200 — EUROfusion	International	CA-SEM-GDS-09-2024-1
DTF_Proposals for time booking_2024 S2	Microstructural and lithium diffusion study of Chinese design alloys with high silicon content.	Teresa Hernández	ICTS-CIEMAT	Collaboration IPP China - Ciemat	International	CA-SIMS-THZ-2024-1
DTF_Proposals for time booking_2024 S2	Characterization of soldered joints in the presence of lead-lithium (PbLi)	Teresa Hernández	ICTS-CIEMAT	Internal ICTS-CIEMAT	National	CA-SIMS-THZ-2024-2
DTF_Proposals for time booking_2024 S2	Characterization of morphology, defects, deposition rate and Zr content in ternary SiC-Zr coatings deposited by co-sputtering	Guillermo de la Cuerda	IFN-GV - UPM	Programa de Excelencia para el Profesorado Universitario of the CAM	International	CA-SEM-GCV-2024-1A
DTF_Proposals for time booking_2024 S2	Characterization of morphology, defects, deposition rate and Zr content in ternary SiC-Zr coatings deposited by co-sputtering	Guillermo de la Cuerda	IFN-GV - UPM	Programa de Excelencia para el Profesorado Universitario of the CAM	International	CA-SEM-GCV-2024-1B

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DTF_Proposals for time booking_2024 S2	OLMAT samples analysis: liquid metals in porous systems, fatigue damage and laser irradiation effects	Daniel Alegre	ICTS-CIEMAT	Grant Agreement No 101052200 — EUROfusion	International	CA-SEM-DAE-04-2023-1-01
DTF_Proposals for time booking_2024 S2	OLMAT samples analysis: fatigue damage and redeposition	Daniel alegre	ICTS-CIEMAT	Grant Agreement No 101052200 — EUROfusion	International	CA-SIMS-DAE-09-2023-2
DTF_Proposals for time booking_2024 S2	Microscope examination of biomass combustion fly-ash.	David Sanz	ICTS-CIEMAT	TERA-RED (Investigación en tecnologías tractoras como camino hacia la descarbonización a través de las redes energéticas híbridas renovables del futuro)	National	SEM-DSR-11-2024-1
DTF_Proposals for time booking_2024 S2	In-situ induced radiation effects in funtional materials (SiO2)	Edgar León Gutiérrez	ICTS-CIEMAT	EUROfusion mat-funtional materials	International	CA-VDG-ELN-05-2024-1
DTF_Proposals for time booking_2024 S2	Microstructural characterization of new coatings developed within the EXCORPION project funded by the MCIU	Marta Malo	ICTS-CIEMAT	EXCORPION- Exploration of anti-Corrosion and Permeation Barriers	National	SEM-MMO-12-2024-1

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CALL FOR PROPOSALS	DESCRIPTION	APPLICANT	APPLICANT ENTITY	PROJECT	TYPE OF PROJECT	ACCESS CODE
2025						
DTF_Proposals for time booking_2025 S1	In-situ induced radiation effects in funtional materials	Edgar León	ICTS-CIEMAT	Functional Materials - Eurofusion	International	VDG-ELN-05-2024-1A-B
DTF_Proposals for time booking_2025 S1	Characterization of SiC coatings deposited on EUROFER - As deposited characterization of permeation samples	Guillermo de la cuerda	UPM	EXCORPION- Exploration of anti-Corrosion and Permeation Barriers	National	CA-SEM-GCV-2024-1E
DTF_Proposals for time booking_2025 S1	Characterization and irradiation of PbS coatings	Raquel González Arrabal	UPM	MAMBA	International	SEM-RGA-01-2025-1
DTF_Proposals for time booking_2025 S1	On the experimental characterization to validate D(T)-transport modelling in ACB ceramics	Maria Gonzalez Viada	ICTS-CIEMAT	EUROFUSION WP BB.T.01.01-T001_CB_Production_and_Characterization	International	SIMS-SEM-VDG-TDS_MGZ-01-2025-1
DTF_Proposals for time booking_2025 S1	ODS steels characterization	Marcelo Roldán Blanco	ICTS-CIEMAT	PRD-5.ADVM.ODS-T003-D001 Microstructural and mechanical characterization of ODS produced by the STARS route - Eurofusion	International	SEM-CONF-MRN-02-2025-1
DTF_Proposals for time booking_2025 S1	Study on the diffusion of Li7	Teresa Hernandez	ICTS-CIEMAT	Internal CIEMAT	National	SIMS-SEM-THZ-02-2025-01

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DTF_Proposals for time booking_2025 S1	Identification of D and He in fusion materials distributed in coexistence	Guiomar Delgado Soria	ICTS-CIEMAT	Internal CIEMAT	National	IMP-SIMS-SEM-GDS-03-2025-01
DTF_Proposals for time booking_2025 S1	Study of permeation under irradiation of ZrC and ZrN coatings on eurofer	Teresa Hernández	ICTS-CIEMAT	Internal CIEMAT	National	SEM-VDG-THZ-03-2025-02
DTF_Proposals for time booking_2025 S1	OLMAT samples analysis by SIMS	Alfonso De Castro	ICTS-CIEMAT	Eurofusion OLMAT	International	SIMS-ACC-03-2025-1
DTF_Proposals for time booking_2025 S1	Radiation damage and Radioluminescence characterization of Li ₂ ZrO ₃	Bun Tsuchiya	Faculty of Science and Technology, Meijo University, Japan	Meijo University-Ciemat collaboration	International	VDG-BUN-03-2025-1
DTF_Proposals for time booking_2025 S1	Surface analysis of the pressed ACB pellets before and after sequential storage and thermal treatment steps	Arturs Zarins	University of Latvia	Recovery and Resilience Facility project “Internal and External Consolidation of the University of Latvia” (No. 5.2.1.1.i.0/2/24/l/CFLA/007), postdoctoral research grant project No. LU-BA-PG-2024/1-0007.	International	SIMS-SEM-AZS-04-2025-1

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DTF_Proposals for time booking_2025 S1	Thermomechanical effect on Eurofer welds exposed to lithium-ceramic pebbles	Teresa Hernandez	ICTS-CIEMAT	Eurofusion WPBB	International	SEM-SIMS-CONF-THZ-04-2025-01
DTF_Proposals for time booking_2025 S1	Study of corrosion in different eurofer batches	Teresa Hernandez	ICTS-CIEMAT	Internal CIEMAT	National	SEM-SIMS-CONF-THZ-04-2025-02
DTF_Proposals for time booking_2025 S1	Muestra itrio cargada con deuterio	María Sanchez Arenillas	ICTS-CIEMAT	LiCRITEC	National	SIMS-MSZ-04-2025-1
DTF_Proposals for time booking_2025 S1	Microstructural characterization of ODS produced by STARS route (large scale)	Nerea García Rodriguez	ICTS-CIEMAT	PRD55. ADMV. ODS-T004-D001_ Microstructural and mechanical characterization of ODS produced by STARS route-2024	International	CONF-NGA-04-2025-1
DTF_Proposals for time booking_2025 S1	Microstructural Characterization of CuCrZr Obtained by Additive Manufacturing	Edgard León	ICTS-CIEMAT	FACE	National	SEM-CONF-ELN-04-2025-1
DTF_Proposals for time booking_2025 S1	Microstructural characterization of new coatings developed within the EXCORPION project funded by the MCIU	Marta Malo	ICTS-CIEMAT	EXCORPION- Exploration of anti-Corrosion and Permeation Barriers	National	SEM-MMO-04-2025-1

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DTF_Proposals for time booking_2025 S1	Induced radiation effects on High Temperature Superconductors	Alejandro Moroño Guadalajara	ICTS-CIEMAT	Functional Materials - Eurofusion	International	SIMS-VDG-AMO-04-2025-1
DTF_Proposals for time booking_2025 S1	Irradiation of SiC coatings	Elissabetta Carella	ICTS-CIEMAT	Eurofusion	International	VDG-ECA-04-2025-1
DTF_Proposals for time booking_2025 S1	Microstructural characterisation of crystals as Hydrogen ionic conductors for DONES-EVO	Julian Patiño Redondo	ICTS-CIEMAT	DONES-EVO	National	SEM-JPO-05-2025-1
DTF_Proposals for time booking_2025 S1	Microstructural characterization of new coatings developed in the frame of the INNUMAT project	Elissabetta Carella	ICTS-CIEMAT	Innumat-Euratom	International	SEM-SIMS-ECA-06-2025-1
DTF_Proposals for time booking_2025 S1	SIMS measurment for He and Au confirmation in dual beam irradiated Tungsten matrix	Sunil Kumar	CMAM	CMAM_CIEMAT Collaborative project	National	SIMS-SKR-06-2025-1
DTF_Proposals for time booking_2025 S1	Effects of ionizing radiation on plant samples	Rosa Gantes Cabrera	IES Valmayor	Research Projects in Baccalaureate IES Valmayor	National	VDG-RGC-06-2025-1

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