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Statement of Work (SOW) for Fabrication of ECH Transmission Line (TL) B11 and B15 Structural Frames

Abstract or description:

This Statement of Work (SOW) is for the production and delivery of the structural frames for the ECH TL in Buildings B11 and B15.

<i>Workflow Role</i>	<i>Name</i>	<i>Action</i>
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<i>Approver</i>	Vetter K.	01 Nov 21:approved

<i>Change Log</i>			
Statement of Work (SOW) for Fabrication of ECH Transmission Line (TL) B11 and B15 Structural Frames (24BX83)			
<i>Version</i>	<i>Latest Status</i>	<i>Issue Date</i>	<i>Description of Change</i>
v0.0	OBSOLETE (In Work)	23 Jun 21	
v1.0	OBSOLETE (Approved)	08 Jul 21	initial issue
v1.1	OBSOLETE (Approved)	06 Aug 21	Changed quantities in Table 2-1. Changed due date for Deliverable 8.
v2.0	CURRENT (Approved)	22 Oct 21	Updating SOW to simplify deliverables so that they are appropriate to the fabrication scope. Removed requirement for a Work Plan (the project schedule is sufficient for this scope). Clarified requirements for the Inspection Plan. Removed requirement for a drawing review of US ITER drawings. Removed requirement for vendor to generate fabrication drawings (the vendor should determine if this is necessary). Updated Deliverables section and schedule. Updated some wording, section numbering, table of contents, and document formatting.

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1. INTRODUCTION

ITER is an international collaborative research project with a programmatic goal of demonstrating the scientific and technological feasibility of fusion energy for peaceful purposes. The European Union is the host party for the ITER facility, which is being constructed in Cadarache, France. The U.S. contribution to ITER is managed by the US ITER Project Office (USIPO), which is hosted by Oak Ridge National Laboratory (ORNL) under contract with UT-Battelle (hereinafter referred to as the “Company”), and located in Oak Ridge, Tennessee. Responsibility for operating the completed ITER facility will belong to the ITER International Organization (ITER IO).

The Electron Cyclotron Heating and Current Drive (ECH&CD or ECH) system performs several functions in the ITER machine, including plasma heating, non-inductive current drive, neoclassical tearing modes instability suppression, plasma start-up, and vacuum vessel discharge cleaning. The ECH system consists of up to twenty-four 1.25MW, 170GHz gyrotrons, transmission lines (TL), and launchers to inject the microwave beam power into the plasma.

The TL subsystem consists of various components that transport high-intensity beams of microwave radiation. Structural steel is used to support and hold ECH TL components in place. The steel helps aid in TL alignment, and therefore ensures adequate microwave power transmission into the tokamak.

2. SCOPE

This Statement of Work (SOW) is for the production and delivery of the structural components for the ECH TL in Buildings B11 and B15. Finished hardware and associated documentation is to be shipped to the ITER site in Cadarache, France.

The quantities for each type of structural component are shown in Table 2-1.

Support Component Description	Quantity	US ITER Drawing No.
B11 2x12 Waveguide Hanger	2	042624
B11 1x8 Waveguide Hanger	12	042626
B11 140° Miter Bend Hanger	2	045448
B15 MOU-TL Interface Frame 1	8	045595
B15 MOU-TL Interface Frame 2	16	045596
B15 3x2 Waveguide Hanger 1	38	045351

Table 2-1 Production Quantities for B11 and B15 Structural Frame Assemblies

The structural components described herein have classifications: Quality Class QC3, Safety Class non-SIC, and Seismic Class SC2. All other classifications are NA.

3. APPLICABLE DOCUMENTS

3.1 References

Document and drawing versions in this SOW and in the *Technical Specification for ECH TL B11 and B15 Structural Frames* [1] will be identified and controlled in the document Current References List

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for the Procurement of the ECH TL B13 and B15 Structural Frames, US_D_22B8ZZ. National and international standards are to be provided by the Seller.

3.2 Reference Documents

- [1] Technical Specification for ECH TL B11 and B15 Structural Frames, US_D_243CX2
- [2] Quality Plan Template for Suppliers and Subcontractors, US_D_23EG78
- [3] Requirements for Producing a Quality Plan, ITER_D_22MFMW
- [4] Inspection Plan Template, US_D_22NBD3
- [5] Requirements for Producing an Inspection Plan, ITER_D_22MDZD
- [6] Contractor Release Note Form, US_D_2299UW
- [7] Contractor Release Note Procedure, US_D_22NEFV
- [8] Manufacturing Dossier Guide, US_D_22863X
- [9] Manufacturing Dossier Template, US_D_22M9FP
- [10] Non-Conformance Report Form, US_D_23CRR3
- [11] Nonconformance Reports Procedure, US_D_22GMTF
- [12] Deviation Request Form, US_D_22C9DT
- [13] Deviation Request Procedure, US_D_22A94F
- [14] ASTM SI10-16, American National Standard for Metric Practice

4. PERFORMANCE REQUIREMENTS

All work under this SOW is to be performed at the Seller's Company-approved facility. If work under this SOW is to be performed at a lower-tier subcontractor's facility, Company approval is required prior to beginning of such work.

The Seller shall provide all shop facilities, fabrication machines, qualified shop personnel, management personnel, materials, inspection/measurement services, cleaning services, packaging services, required sub-tier vendors, software, hardware, and office space for completing this scope of work.

A project kick-off meeting will be scheduled at a mutually agreed date, time, and location as soon as practical after award of subcontract. The primary purpose for the kick-off meeting is to confirm that the project participants understand the terms and conditions of the subcontract, the SOW, the technical specification and drawings, the quality assurance requirements, and the work activities involved with each task.

The Seller shall deliver the hardware and associated documentation in accordance with the performance requirements identified in Sections 4.1 – 4.12 of this SOW.

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4.1 Preparation of Quality Plan (QP)

The Seller shall prepare a Quality Plan (QP) specifically for this subcontract in accordance with the requirements and guidelines in *Quality Plan Template for Suppliers and Subcontractors* [2] and *Requirements for Producing a Quality Plan* [3].

The QP shall be submitted to the Company's Technical Project Officer (TPO) for review and approval.

Further work on this subcontract may not begin until the Seller receives notice from the TPO that the QP is approved.

Any revised QP is subject to the same approval and acceptance procedure as the original QP.

Unless otherwise directed by the TPO, in case of a QP revision, work should continue in accordance with the current approved QP until the revised QP is accepted.

The ITER-specific QP shall be flowed down contractually from the Seller to the Seller's suppliers and subcontractors unless the requirement is waived in writing on a case-by-case basis by the Company.

4.2 Preparation of a Project Schedule

The Seller shall prepare a project schedule. The project schedule document shall identify the schedule for these activities. The schedule should identify the critical path for completion of this subcontract and will be used to track progress to completion. The project schedule shall be updated throughout the work process. At a minimum, monthly updates must be submitted to the TPO.

The project schedule shall be submitted to the TPO for review and approval.

4.3 Preparation of Inspection Plan (IP)

The Seller shall prepare an Inspection Plan (IP) that provides a listing and description of all manufacturing and inspection activities. The requirements for an IP can be found in *Requirements for Producing an Inspection Plan* [5]. A US ITER standard form *Inspection Plan Template* [4] is available from the Company for documenting the IP.

Unless otherwise directed by the TPO, in case of a planned revision, work should continue in accordance with the current approved IP until a revised plan is accepted.

The requirement for an IP shall be flowed down contractually from the Seller to the Seller's suppliers and subcontractors unless the requirement is waived in writing on a case-by-case basis by the Company.

The Seller shall submit the IP to the TPO for review and approval. Manufacturing activities may not begin until the Company approves the IP and after successful completion of the Manufacturing Readiness Review (MRR).

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4.4 Material Procurement

The Seller is responsible for providing all materials required for fabrication and assembly of the structural frames and any required constituent components. The Seller shall ensure that all raw materials and prefabricated components meet the requirements of the technical specification [1].

4.5 Design of Packaging

The Seller shall design packaging in accordance with the requirements of the technical specification [1] and shall submit the proposed design(s) to the TPO for approval. The packaging of the structural frames should be designed to accommodate loading and unloading into a marine shipping container.

The Seller's proposed packaging design documentation shall, as a minimum, include drawings and/or descriptions as evidence that requirements of [1] are clearly satisfied.

4.6 Welding Documentation and Procedures

Prior to commencement of welding operations, the Seller shall submit for approval all Welding Procedure Specifications (WPS) and Procedure Qualification Records (PQR) to be utilized to perform the required welds. Additionally, certifications for the welders and weld inspectors to the required Codes as stated in the technical specification [1] shall also be provided.

4.7 Manufacturing Readiness Review (MRR)

A MRR will be performed to confirm the Seller's readiness to produce the structural frame components. This review will ensure that the Seller understands technical requirements, has properly planned the manufacturing operations (including personnel and equipment), and has a fully integrated quality assurance program prior to beginning manufacturing operations. This MRR will involve a review of the Seller's Quality Plan, Inspection Plan, Welding Procedure Specifications, Welding Procedure Qualification records, and other manufacturing plans, drawings, and procedures. The Seller's participation will be limited to providing written responses to comments and questions generated during the review of these documents. Manufacturing activities may not begin until the Company approves the IP, after successful completion of the MRR, and the TPO has authorized the start of manufacturing.

4.8 Fabricate and Deliver Hardware

Once the Company and the IO have reviewed and approved the welding documentation, the TPO will authorize the Seller to begin welding operations. Fabrication processes must conform to those steps identified in the IP.

4.8.1 Factory Inspection and Acceptance Testing

Once fabrication of each structural frame component is complete, the Seller shall perform all factory inspection and acceptance testing as specified in the IP.

4.9 Documentation Requirements

The Seller shall provide the documentation specified in this section with each hardware delivery.

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4.9.1 Material Certifications

Material certifications compliant with the requirements of the technical specification [1] shall be provided.

4.9.2 Visual Inspection and Dimensional Measurement Reports

Visual inspection and dimensional measurement reports shall include all drawing dimensions, surface finish, and workmanship requirements, as applicable.

At a minimum, each entry must include the drawing number, sheet, zone, nominal dimension or requirement, actual measurement, the Seller ID for the measuring or test equipment used, and whether the article meets or fails the referenced requirement.

4.9.3 Contractor Release Note (CRN)

Prior to final packaging and hardware shipment, the Seller shall conduct a quality review to verify that the applicable requirements of this SOW have been met. The results of this review shall be documented on the Contractor Release Note (CRN), which shall be provided to the Company for approval before the assembly is packaged in preparation for shipment. The approved CRN shall be attached to the hardware for shipping.

The CRN shall serve as the Seller's Certificate of Conformity and certify that the structural frames meet all the requirements defined in the technical specification [1] and this SOW.

The Seller shall prepare the CRN in accordance with *Contractor Release Note Form* [6] and completed in accordance *Contractor Release Note Procedure* [7].

4.9.4 Manufacturing Dossier

The Seller shall provide an electronic version of the Manufacturing Dossier in accordance with the guidance in *Manufacturing Dossier Guide* [8] and *Manufacturing Dossier Template* [9].

4.10 Communications Protocol

The Seller shall designate an official point of contact to interface with the Company TPO for discussions, clarification, or other technical issues. The point of contact designation shall be in the form of an e-mail sent to the TPO with a copy to the Procurement Officer. The point of contact designation shall be completed within five (5) working days after award of the subcontract.

5. QUALITY ASSURANCE

The quality of work performed under this SOW will be controlled by the Seller assigning the appropriate, knowledgeable, and qualified personnel and sub-tier vendors to this task, providing appropriate facilities and manufacturing equipment, and following a rigorous quality assurance plan.

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5.1 Quality Assurance (QA) Program

The Seller and key sub-tier vendors are to have Quality Assurance (QA) programs that meet or exceed the requirements of AISC and/or ISO 9001 (or Company-approved equivalent).

The QA programs shall be implemented as provided in the Company-approved QP (prepared per Task 1 in Sect. 4.1, sufficient to ensure that the quality of items produced or services provided will meet all the requirements as stated in this SOW and the technical specification [1].

5.2 Access for Source Surveillance Inspections

As part of the Company's QA program, source surveillance activities may be conducted at the Seller's facility or any sub-tier contractor's Seller facility that the Company determines necessary to ensure that quality objectives are met.

Representatives of ITER IO may accompany the Company inspectors as observers.

ITER IO representatives may be U.S. citizens or foreign nationals.

Such surveillance may include auditing and monitoring of CAD software, preparation of drawings and documents, performance of studies, inspection, personnel qualification, and all other manufacturing steps.

The Seller is to provide the Company representatives access to all data and operating areas pertinent to this subcontract to assure that items or services are being furnished in accordance with specified requirements.

Source surveillance by the Company representative does not constitute product acceptance by the Company and will in no way relieve the Seller of the responsibility to furnish acceptable deliverables.

5.3 Inspection

Inspection requirements are addressed in the technical specification [1].

The Company has the right to witness all inspections.

Calibration records shall be available for all measurement tools, and all measurements shall be taken with tools that have current calibration certifications.

5.4 Non-conformance Reports (NCR)

Note: The issuance and acceptance of a non-conformance report (NCR) in no way limits or affects the warranty provision of the subcontract.

The Company expects to receive equipment, items, components, materials, and documentation that conform to all codes, standards, specifications, and procedures identified in the subcontract.

When a non-conformance is identified, the Seller is to:

- i. Identify and segregate when practical, the non-conforming item,
- ii. Stop any further work on the item until disposition is provided by the Company, and

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- iii. Record and report the occurrence to the Company in an NCR.

The NCR is to contain or refer to all relevant material available to enable an informed decision on the definite course of action to be taken.

NCRs are to be submitted on the *Non-Conformance Report Form* [10], completed per the *Nonconformance Reports Procedure* [11].

An accepted NCR does not establish a precedent or obligation to accept existing or future items not conforming to all provisions of the subcontract.

5.5 Deviation Requests (DR)

Note: The issuance and acceptance of a deviation request (DR) in no way limits or affects the warranty provision of the subcontract.

The Seller may propose deviations from the specifications, drawings, or other technical requirements of this procurement.

Where time is a consideration, the Seller may communicate the proposed deviation directly to the TPO, with a copy to the Company's Procurement Officer.

The request is to identify the affected items, drawing/specification number and revision number, a description of the proposed deviation, and the justification for it.

The TPO will evaluate the technical aspects and recommend acceptance/disapproval to the Procurement Officer, who will communicate acceptance or disapproval to the Seller.

DRs are to be submitted on the *Deviation Request Form* [12], completed per *Deviation Request Procedure* [13].

An accepted DR does not establish a precedent or obligation to accept existing or future items not conforming to all provisions of the subcontract.

6. DELIVERABLES

6.1 Seller's Deliverables

The Seller shall provide the following deliverables in accordance with the format for documents and deliverables provided in Sect. 6.3:

Deliverable 1: Sect. 4.1 – Quality Plan (QP) – Due 2 weeks after award of contract

Deliverable 2: Sect. 4.2 – Project Schedule – Due 3 weeks after award of contract

Deliverable 3: Sect. 4.3 - Inspection Plan (IP) – Due 4 weeks after award of contract

Deliverable 4: Sect. 4.5 – Design of packaging – Due 8 weeks after award of contract

Deliverable 5: Sect. 4.6 – Welding documents – Due before start of welding activities

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Deliverable 6: Sect. 4.8 – Hardware with associated documentation per Table 2-1 – Due within 20 weeks after award of contract

Deliverable 7: Sect. 6.2 – Periodic communication and reporting

6.2 Periodic Communication

The Seller shall participate in a periodic phone conference to be held with the Company’s TPO to discuss any technical issues, schedule, personnel, and any other items pertinent to the work activities. The periodic phone conference will serve as a mechanism for early visibility of problems and issues arising during the performance of this subcontract. The schedule will be determined by the TPO.

The Seller shall prepare and issue conference call minutes to the TPO within two business days after the periodic phone conference.

The Seller shall provide a written monthly status report containing an updated schedule and data to support the generation of the US ITER Project monthly report.

Monthly report data shall include actual schedule progress, milestones reached, corrective actions needed, display of the critical path for the Seller’s work, and a brief narrative describing the status of work, significant accomplishments, actual and potential problems, and risk mitigations or corrective actions.

The monthly report shall be submitted to the TPO on the twentieth (20) calendar day of the month. If the twentieth day falls on a weekend or holiday of the country in which the Seller is located, the monthly report may be submitted on the first working day after the twentieth calendar day.

6.3 Format for Documents and Deliverables

Electronic distribution will be the standard method of transmitting all deliverables including quality plans, reports, meeting minutes, drawings, general correspondence etc.

All documents are to be identified by contract number and provided in a searchable PDF format.

All documentation must reference the part number (drawing number) and serial number associated with the data, if applicable.

All documents are to use metric units as specified in *ASTM S110-16 American National Standard for Metric Practice* [14].

Documents (including drawings) are not to bear any stamp (e.g., proprietary, confidential, business sensitive, etc.) that requires the document to be protected by US ITER unless the document relates to intellectual property that the Seller disclosed on the Background Intellectual Property form submitted with the proposal.

Documents that include open items and/or assumptions should include a section in the document that clearly identifies those items.

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Revisions of documents submitted to the TPO for approval are to clearly identify substantive (non-editorial) changes made in the revision. The Seller's identification of the changes may be addressed in the document or in a summary accompanying the document (e.g., e-mail, letter, transmittal form). Reports are to contain narratives, spreadsheets, calculations, illustrations, and drawings where necessary to supplement the text and improve understanding.

Reports and other narrative documents are to have a cover sheet stating the document number, document title, issue date, and subcontract number, as well as having a place to identify authors, checker, and approval signatures as required.

All reports and narrative documents are to begin with an executive summary briefly describing the contents and conclusions of the document.

Narrative documents are to be transmitted to the TPO as the native file with an accompanying searchable PDF file for review and acceptance or approval.

Documentation created and delivered for this scope of work will become part of the official US ITER Document Management System (iDOCS) and potentially the ITER Document Management (IDM) System.

Models and drawings created by the Seller and sent to the Company are to be created using electronic CAD software and provided to the Company in either STEP or IGES format and a PDF file. Any required signatures are to be electronically applied to the PDF file and physically to any hard copy.

Oral presentations are to use PowerPoint software.

7. TRANSPORTATION ARRANGEMENTS

The Seller is responsible for packaging, storage, and loading of all hardware/equipment covered by this SOW.

7.1 Transportation Arrangements

- a. For shipments subject to United States export control law, the Seller is to comply with the Export Administration Regulations (EAR) and Foreign Trade Statistics Regulations (FTSR). The Seller will serve as both the Exporter (Shipper of Record) according to the EAR and the U.S. Principal Party of Interest (USPPI) according to the FTSR.
- b. For shipments originating from foreign locations, the Seller will also serve as the Exporter according to the origin country's export control regulations.
- c. Transportation of the hardware/equipment from Seller's facility to its final destination is not part of the scope of this statement of work.
- d. Transportation activity will be conducted by the ITER Project's Global Logistics Service Provider (LSP), Daher International and/or its United States partner, TransProject through a separate arrangement.

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7.1.1 Loading

- a. The Seller is required to load items to be transported onto the LSP transport vehicle (e.g., truck, van, trailer, vessel, ocean container, air freight container, rail car) at the factory. In doing so, Seller is to provide all necessary and customary equipment, personnel, and safety equipment for proper loading onto the vehicle.

7.1.2 Pre-shipment Documentation

NOTE: All shipment documentation must be completed in the English language.

The Seller is to provide information and documentation required for international shipment in accordance with the following schedule (see Deliverable 7, section 6):

7.1.2.1 Pre-Shipment Deliverable Package No. 1

- A. Pre-Shipment Deliverable Package #1 is to be provided no later than 30 weeks prior to planned date of shipment.
- B. Pre-Shipment Deliverable Package #1 is to contain the following items:
- Written notice of the planned date on which the goods will be packaged and available for shipment.
 - Technical characteristics of the packaged component(s), as follows:
 - Physical data and drawings showing dimensions, total and distributed weights, center of gravity (in 3 dimensions), shipping orientation;
 - Address of the location where items are to be picked up by the LSP;
 - Documentation (e.g., Material Safety Data Sheets) regarding relevant compliance regimes, such as Export Control, Transportation of Dangerous Goods, and Environmental Protection;
 - Identification of any items that have been identified as Safety Important Components (SIC) or Protection Important Components (PIC);
 - Conditions or precautions to be respected when moving, loading/offloading, handling/slinging, and storing to include, when required, specific provisions and controls to be performed and recorded while under the control of the LSP;
 - Documentation confirming that packaging is designed to withstand anticipated transport accelerations (e.g., International Maritime Organization (IMO) CSS Code) and weather conditions;
 - Packaging specification including confirmation of compliance with international packing standards (e.g., International Standard for Phytosanitary Measures (ISPM)-15, Conformité Européenne/CE certification for relevant package lifting appurtenances such as eyes/rings), agreed barcoding requirements and regulations relating to packaging materials used. NOTE: All packaging using wood products must comply with the requirements of ISPM-15;
 - Definition of packaging/frame, when the components are packed or tarped, including any particular procedures for handling, moving, clean-up, maintenance, storage;
 - Any condition to be respected regarding marshaling and warehousing stages;

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- Specification for securing and hanging packages/frames including jacking/lifting/lashing conditions, procedures, and acceptable securing points;
- Identification of specialized equipment/hardware (e.g., custom lifting fixture) interface requirements between each point of use within supply chain. NOTE: any specialized packing/handling frame or tool should be detailed in drawings, meet relevant domestic and international requirements (e.g., Occupational Safety and Health Administration, CE), and is subject to approval by LSP;
- Description of interface between Seller and LSP (e.g., release conditions for loads, Seller's loading means, etc.);
- Technical data concerning appropriate monitors provided to detect rough handling during transport (e.g., shock, vibration, tilt, impact and temperature change indicators)

7.1.2.2 Pre-Shipment Deliverable Package No. 2

- A. Pre-Shipment Deliverable Package #2 is to be provided no later than fourteen weeks prior to planned date of shipment.
- B. Pre-Shipment Deliverable Package #2 is to contain the following items:
- Written confirmation of the date goods will be ready for shipment or submit revised shipment date for approval.
 - Contact information for Seller's Shipping/Logistics coordinator
 - Fabrication value of goods (for insurance purposes – should not include destination site support services)
 - Transport drawings with sufficient detail to facilitate lifting/lashing/stowage and approval of the operators (e.g., steamship line, air carrier).
 - The following business documents (in English language):
 1. Pro-forma/commercial invoice on Seller's letterhead listing, at a minimum:
 - Subcontract number
 - Description and quantity of goods
 - Value of goods
 - Incoterm 2020 Rules
 - Schedule B number (for U.S. exports) or Harmonized System code
 - Country of origin
 - Export control determinations (e.g., "ECCN: EAR99, No Export Control License required")
 - **Consignee:**

NOTE: If shipped to the ITER site, use the address below.
--

ITER Organization
 Route de Vinon sur Verdon, CS 90 046
 13067 St. Paul lez Durance CEDEX, France
 Contact: Yanchun Qiao (+33-4-42-17-62-57; Cell: +33-6-26-31-29-96)
Yanchun.Qiao@iter.org

- **Duty Free Declaration**

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Shipments on behalf of the ITER International Fusion Energy Organization (“ITER Organization”) for its official use are eligible to duty-free customs clearance under the Agreement on the Privileges and Immunities of the ITER International Fusion Energy Organization for the Joint Implementation of the ITER Project, done in Paris on 21 November 2006 and ratified, accepted, and approved by the People’s Republic of China, EURATOM (for the European Union and Switzerland), the Republic of India, Japan, the Republic of Korea and the Russian Federation. **DIPLOMATIC SHIPMENT on behalf of the ITER Organization. FOR DUTY-FREE CUSTOMS CLEARANCE.**

- **Consignor** (Seller’s name, address, and contact information)
2. Itemized packing list on Seller’s letterhead detailing the following at a minimum for each package:
- Subcontract Number
 - Package number (sequential number assigned to each package)
 - Package type (e.g., wooden crate, item on pallet, etc.)
 - Seller’s equipment/component identification number(s)
 - ITER Equipment Identification Number(s) (if applicable)
 - Item Description
 - Quantity of each item
 - Gross Weight (kg)
 - Net Weight (kg)
 - Dimensions (cm)
 - Volume (m³)
 - Special Handling Instructions
 - Storage Instructions (e.g., indoor, conditioned space)

NOTE: The invoice, packing list and other documents, where appropriate, must be acceptable to the importing country’s Customs agency. The LSP will review submitted documents and request amendments where required. If amendments are requested, Seller must update and submit revised documents within seven (7) days.

3. Export Control License(s) or other authorization documents if required.

7.1.2.3 Pre-shipment Deliverable Package No. 3

- A. Pre-Shipment Deliverable Package #3 is to be provided no later than two weeks prior to planned date of shipment.
- B. Pre-Shipment Deliverable Package #3 is to contain the following items:
Evidence of appropriate proof testing and certification for any custom lifting apparatus that will travel with the item and be utilized during loading and unloading operations

7.1.2.4 Pre-shipment Deliverable Package No. 4

- A. Pre-Shipment Deliverable Package #4 is to be provided no later than one week prior to planned date of shipment.

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B. Pre-Shipment Deliverable Package #4 is to contain the following:

1. Any remaining information needed to facilitate appropriate completion of transport documents such as Bills of Lading or Air Waybills.
2. Data elements and authorizations (e.g., Shipper's Letter of Instruction, Power of Attorney) required for LSP submission of electronic filings in the Automated Export System (AES) when necessary.
3. Dangerous Goods Declaration if required for transport.

7.1.3 *Package Marking*

The Seller is required to mark each package with the following:

- Subcontract number
- Delivery address
- Consignor (Seller's name, address, and contact information)
- Package number (as identified on the packing list)
- ITER Equipment Identification Number(s) (if applicable)
- Gross Weight (kg)
- Net Weight (kg)
- Special Handling Instructions
- Lifting/Lashing/Jacking points
- Center of gravity (in 3 dimensions)
- Compliance marks (e.g., ISPM-15, CE) (if applicable)

7.1.4 *Deviations from Planned Date of Shipment*

Seller is to immediately notify the TPO and Procurement Officer, in writing, of any actual or potential change to the agreed-upon date of shipment.

7.1.5 *Storage of Finished Products*

The Company, at its discretion, may require Seller to postpone the date of shipment by up to sixty (60) days from the agreed upon date of shipment. If the date of shipment is postponed, Seller is to, at no additional cost, store finished products in a safe and secure manner that protects their condition and preserves the integrity of all components and packaging. If storage is required beyond sixty (60) days, Seller agrees to good faith negotiation of extended storage terms.