

Technical Specifications (In-Cash Procurement)

Floor Protection B11 _ Technical Specifications

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1 Purpose

This document defines the requirements for the supply, installation and maintenance of floor protection to be installed in Building B11 of the Tokamak Complex.

2 Background

ITER is a joint international research and development project for which construction is in progress. The project aims to demonstrate the scientific and technological feasibility of fusion power for peaceful purposes. The seven members of the ITER Organizations are:

- The European Union (represented by EURATOM)
- Japan,
- The People's Republic of China
- India
- The Republic of Korea
- The Russian Federation
- The United States of America

The aim of the ITER project is to show fusion can be used to generate electrical power, and to gain the necessary data to design, construct and operate the first electricity-producing plant. It will also test a number of key technologies, including the heating, control, diagnostic and remote maintenance that will be needed for a full-scale fusion power station.

The ITER site is established in South East France, in the Bouches du Rhône district, close to the CEA Cadarache Centre. It includes the Headquarters of the ITER Organization, and the construction worksite. During this phase the number of construction workers employed on site will continuously evolve and can reach up to 2000 people.

Further information is available on the ITER website: <http://www.iter.org>.

3 Scope

The scope of services covered by this technical specification includes:

- supply of a PVC linoleum floor, its underlayer and needed product for its installation (such as glue),
- installation of the PVC linoleum in the 5 levels of the Tokamak Complex in building 11. Each level will be launched independently,
- maintenance/repairs of damaged areas during 5 years.

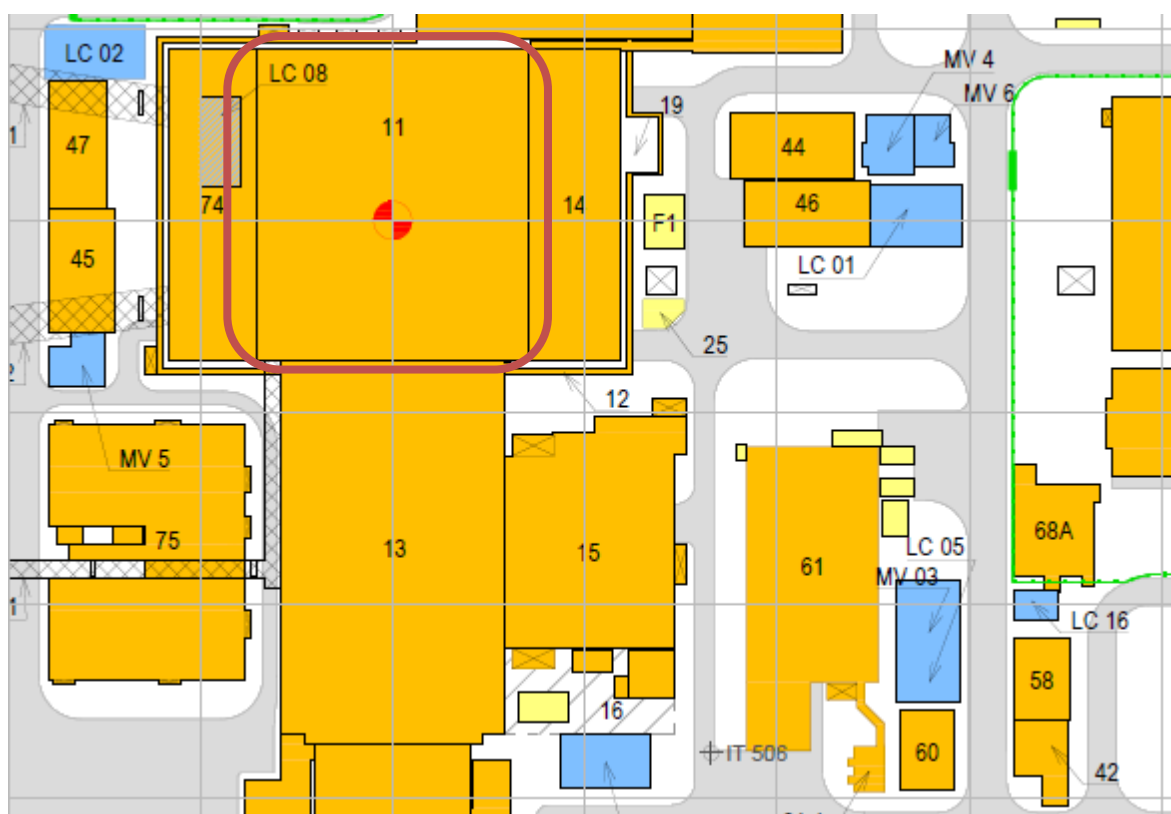


Figure 1: Location of buildings 11 on the ITER platform

Level	Building	Surface (m ²)
B1	B11	3580
L1	B11	4000
L2	B11	2850
L4	B11	1240
L5	B11	700

Table 1: Surfaces to be protected by level

4 Definitions and acronyms

4.1 Definitions

Definitions	
Common areas	Any area where more than one works contractor is working simultaneously
Platform	ITER Construction site
The Contractor	Floor protection Contractor
The Employer	ITER Organization
Tokamak Complex	Used to identify all Tokamak building (11), Diagnostic building (74), Tritium Building (14)
Tokamak pit	Area within Tokamak building (11) inside the bioshield area.
Works Contractors	IO Contractors in charge of ITER equipment assembly

For a complete list of ITER abbreviations see: [ITER Abbreviations \(ITER_D_2MU6W5\)](#).

4.2 Acronyms

Acronyms	
CMA	Construction Management as Agent
IDM	ITER Document Management (system)
IO	ITER Organization
PPE	Personal Protective Equipment
PPSPS	French acronym for Plan Particulier de Sécurité et de Protection de la Santé – Specific plan of safety and health protection
SHS	Security, Health & Safety Division
TRO	Technical Responsible Officer

5 References

- [1] Housekeeping instruction, ref ITER_D_XJKR3R
- [2] ITER Site Signage & Graphics Standards, ref. ITER_D_4ALJEU
- [3] Internal Regulations, ref. ITER_D_27WDZW
- [4] Site Plan for Internal Regulations, ref. ITER_D_3XWZL6
- [5] ITER Site access Procedure, ref. ITER_D_S3893D
- [6] Vehicle Access and Traffic Circulation and Parking on the ITER Site, ref. ITER_D_N3MG3V
- [7] PGC SPS Vol. 1 - IO&F4E, ref. ITER_D_T6V4RP

- [8] Cooperation Rules for Safety Coordination between the HSPC and the contractors for activities under IO as Building Owner, ref. ITER_D_UJ95AV
- [9] Housekeeping Instruction, ref. ITER_D_XJKR3R
- [10] Environmental requirements, ref. ITER_D_97WRFP
- [11] ITER Site Permit to Work Overarching Procedure, ref. ITER_D_3E8289
- [12] In-Cash Procurement Technical and Management Documentation Exchange and Storage Procedure, ref. ITER_D_G8UMB3
- [13] General Management Specification for executing entities at the ITER site ITER_D_YX55YY

6 Estimated Duration

The floor protection shall be installed in first semester of 2021 in all levels. The contract shall have a duration of 5 years from contract signature. Refer to the contract for detailed schedule.

7 Work Description

7.1 Type of floor protection to be supplied

The purpose of the floor protection is to protect the floor painting layers (definitive painting) in each level of the Tokamak building, from the installation activities in the area: welding, falling of objects, heavy traffic, heavy loads stored, use of trolleys and forklifts.

After several test with different type of product, it has been decided to use a PVC linoleum floor with the following characteristics:

- Maximum resistance to punch and traffic (U4-P3 type or equivalent),
- Thickness as thin as possible to avoid creation of waves during transport,
- Installation of the final floor (gluing not possible on the final painted floor),
- Floor protection parts welded/connected together to have a unified floor protection,
- Use of an underlayer as thin as possible to avoid movement/waves during transports and activities of other IO contractors,
- Fire resistant (at least M3 / Bfl-s1 or equivalent).

7.2 Installation of the floor protection in the buildings

The installation of this floor protection shall be done level by level independently. Each area will be cleared by ITER Organization and be free from equipment before the installation of the floor protection.

The schedule of installation shall allow a blocking period of the area as short as possible. Working on Saturdays shall be taken into account to optimize the installation schedule.

The floor protection already in place in some areas will have to be removed and cleaned before installation of the new floor protection.

The first level that will be protected is Firm (refer to Table 1), the installation for other levels is optional and will be confirmed by the IO according to the table in paragraph 9 or as defined in the contract.

7.3 Maintenance/repair on floor protection

The damages done to the floor protection during the time of the contract (5 years from installation date) will have to be repaired by replacement of the part damaged by a new one. This new floor protection shall have the technical characteristics as defined in 7.1 and shall be the same product type than the one installed in the level.

For the purpose of this tender, an average amount of 15% of the surface of each level shall be taken into account for these repairs.

The maintenance/repair of the first level is firm. The maintenance/repair of the other levels is linked with its confirmation as stated in paragraph 9.

The area(s) to be repaired will be identified by the area coordinator on a dedicated document and sent to the contractor who will have to perform the repair within a 2 to 3 weeks' notice.

8 Responsibilities

The Contractor's personnel, when involved in installation and maintenance work as explained in the previous chapters, shall be bound by the rules and regulations governing ITER

The Contractor is responsible to supply, install and maintain the floor protection in building 11 to the ITER Organisation. To proceed with the installation, the contractor shall provide a PPSPS (acronym for the specific safety plan for contractor work) and an Environment Respect Plan (PRE) which includes a risk assessment for site activities.

During works on site, the contractor shall provide to its workers personal protective equipment required by the IO:

- Safety helmet
- Safety glass
- Safety shoes
- Yellow high visibility vest / jacket
- Gloves

9 List of deliverables and due dates

Number	Deliverable	Due date
D1	Technical documentation of the floor protection / product selected including fixing product (glue) if any	T0 + 1 week
D2	Detailed schedule of installation	T0 + 1 week
D3	Administrative documentation: PPSPS, Environnement Respect plan, Access request	T0 + 2 weeks
D4	Delivery and start of installation of the floor protection on ITER site: exact date of installation per level will be defined with the site coordination. 1 st level (B1) (FIRM)	T0 + 4 weeks
D5	2 nd level (OPTION)	4 weeks after notification
D6	3 rd level (OPTION)	4 weeks after notification
D7	4 th level (OPTION)	4 weeks after notification
D8	5 th level (OPTION)	4 weeks after notification

10 Acceptance Criteria

Number	Requirement
D1	Approval of the documentation by IO
D2	Approval of the detailed schedule by IO
D3	Approval of the administrative documentation by IO
D4 to D8	Upon receipt by the IO of each level protected and verification of full compliance with this technical specification

11 Specific requirements and conditions

11.1 Applicable Laws and Regulations

In compliance with Article 14 of the ITER Agreement establishing the ITER Organization, the ITER Organization has to observe French Laws and Regulations in the fields of public and occupational health and safety, nuclear safety, radiation protection, licencing, nuclear materials, environmental protection and the protection from acts malevolence.

It is to be noted that the ITER facilities are classified as a nuclear facility (“Installation Nucléaire de Base” (INB) according to French Nuclear Laws and Regulations) and is designated by the French Government as a critical infrastructure (“Point d’Importance Vitale” according to French Defence Code).

11.2 Confidentiality

The Contractor agrees to treat all areas related with performance of his tasks with strict confidentiality. The Contractor shall be liable for its staff and for disclosure of the information and documents communicated to for fulfilment of the contract to any other individuals than those needing to have knowledge thereof.

Any established breach of this principle of confidentiality or respect of medical confidentiality will result in immediate termination of the contract at the Contractor's expense.

11.3 Protection of existing facilities

The Contractor shall ensure that existing facilities are not damaged by the Contractor while executing the Works and that suitable protection is put in place when working in the vicinity of existing facilities.

In case of any damages to the existing facilities and/or third party assets caused by the Works execution, the Contractor shall cover the cost of the remedial works.

11.4 Language

The official language of the ITER project is English. However the Contractor will be frequently exposed to French speaking entities (contractors and public authorities): it is therefore appreciated that the Contractor hold a proficient level of French. All documentation related to the present tender shall be in English.

11.5 Access to the site

Access to the ITER Site is subject to entrance and exit control measures as defined in the ITER Site access Procedure [5]. The Contractor shall request its accesses to IO in a timely manner. Regular access hours for the ITER construction site are from 5:30 to 22:30 (Monday to Saturday).

Access to the ITER Site outside regular access hours shall be possible for specific activities. Specific controls are applied to personnel entering the site. For security purposes, access may be refused or withdrawn for any worker without justification.

11.6 Permit To Work

Prior to the start of any Works on the ITER Site, a Permit To Work must be obtained in accordance with the Permit To Work Procedure (ITER_D_UBET39). The procedure used will be given to the contractor in accordance to the location and the type of works.

12 Quality Assurance (QA) requirements

The organisation conducting these activities should have an ISO 9001 accredited quality system or equivalent.

The general requirements are detailed in [ITER Procurement Quality Requirements \(ITER_D_22MFG4\)](#).

13 Appendix 1: drawings of levels

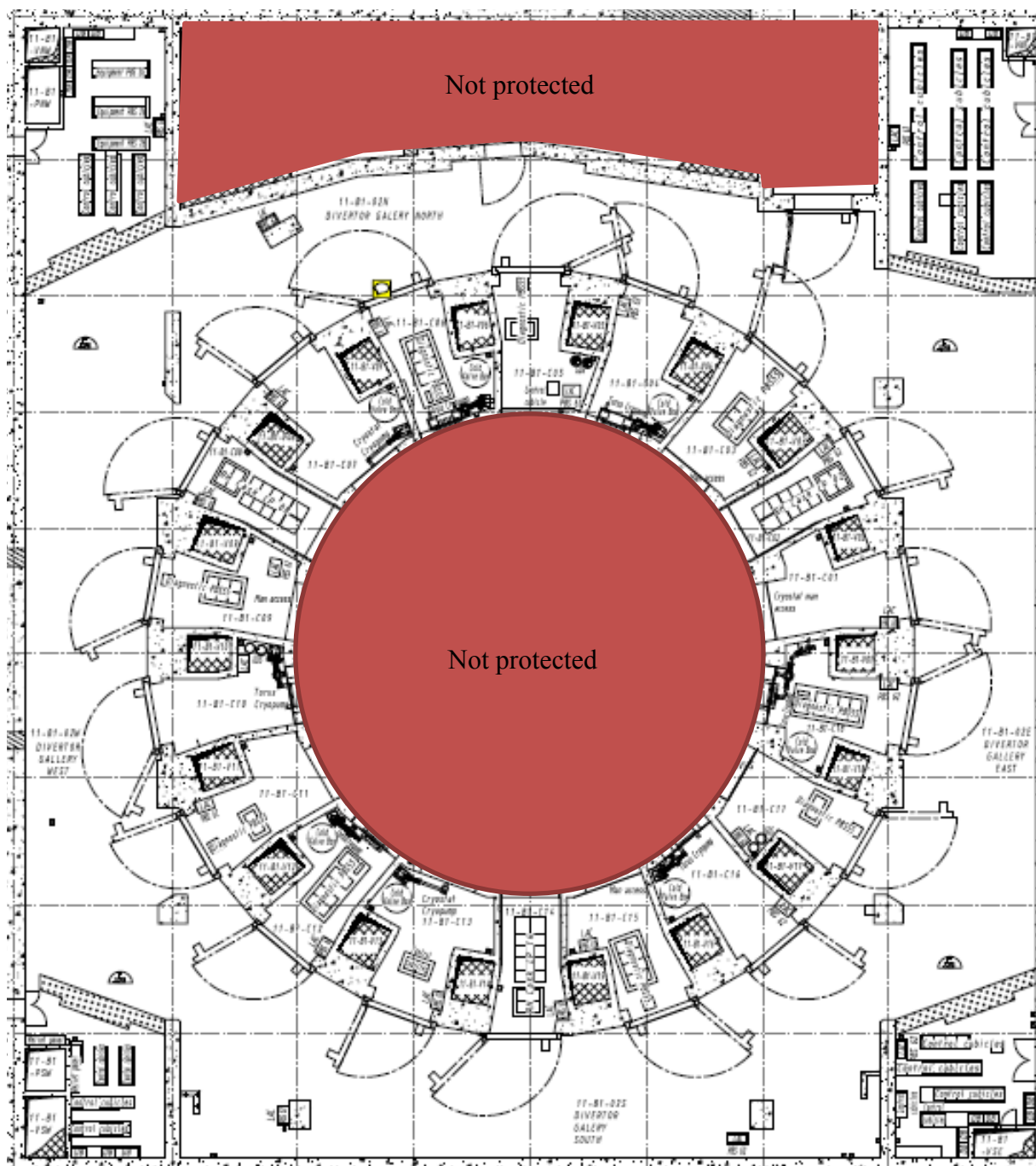


Figure 2: B1 level

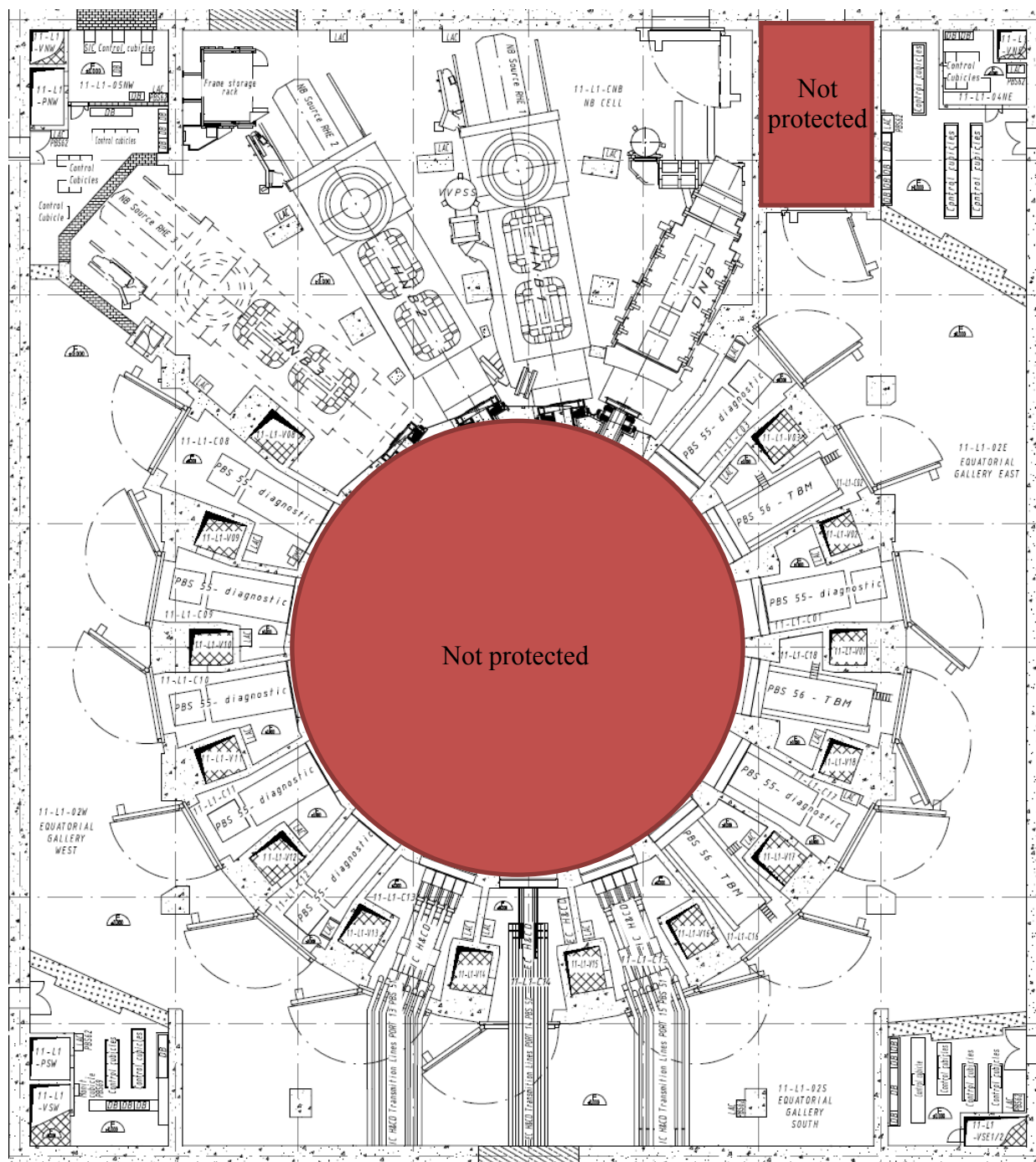


Figure 3: L1 level

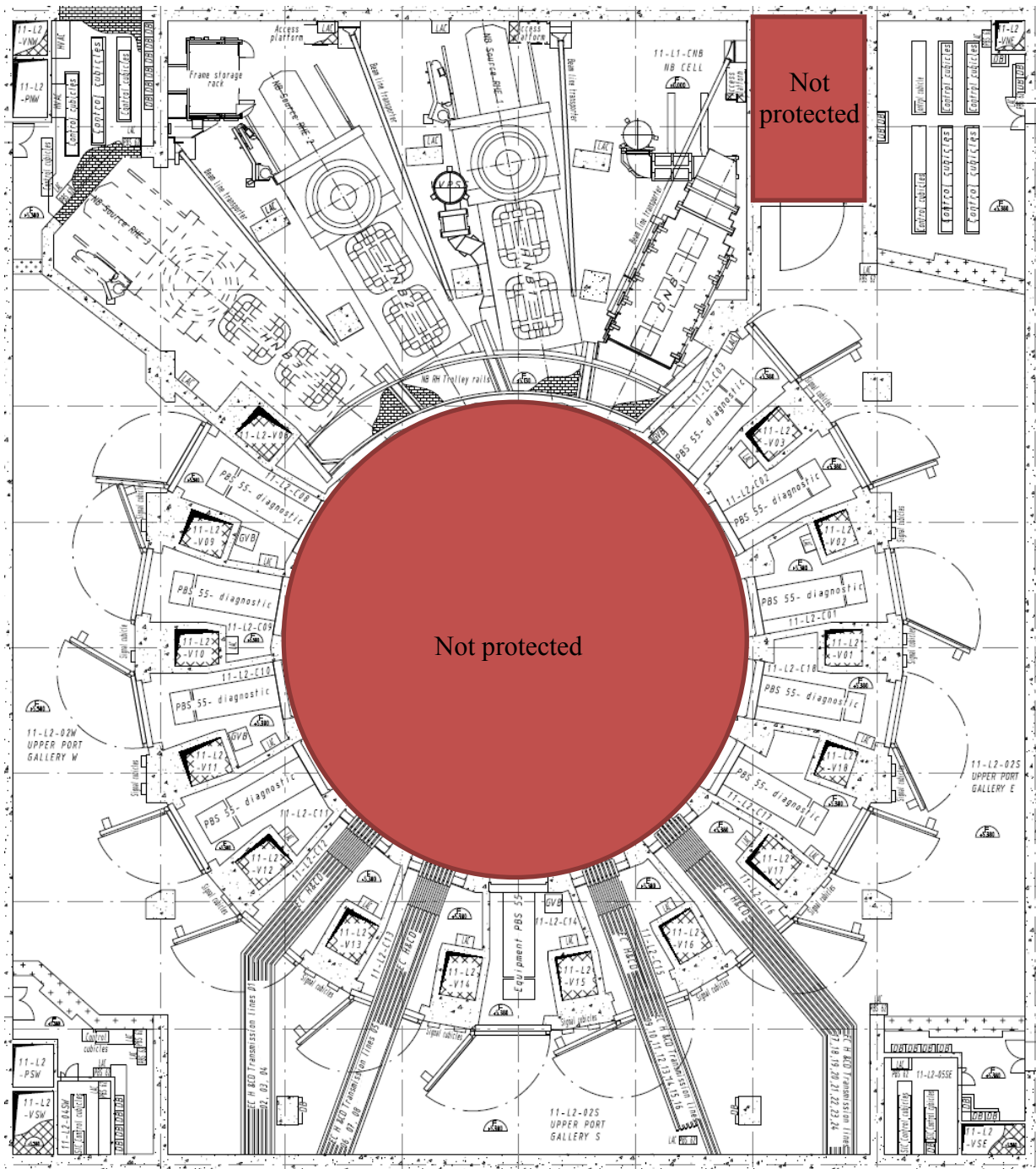


Figure 4: L2 level

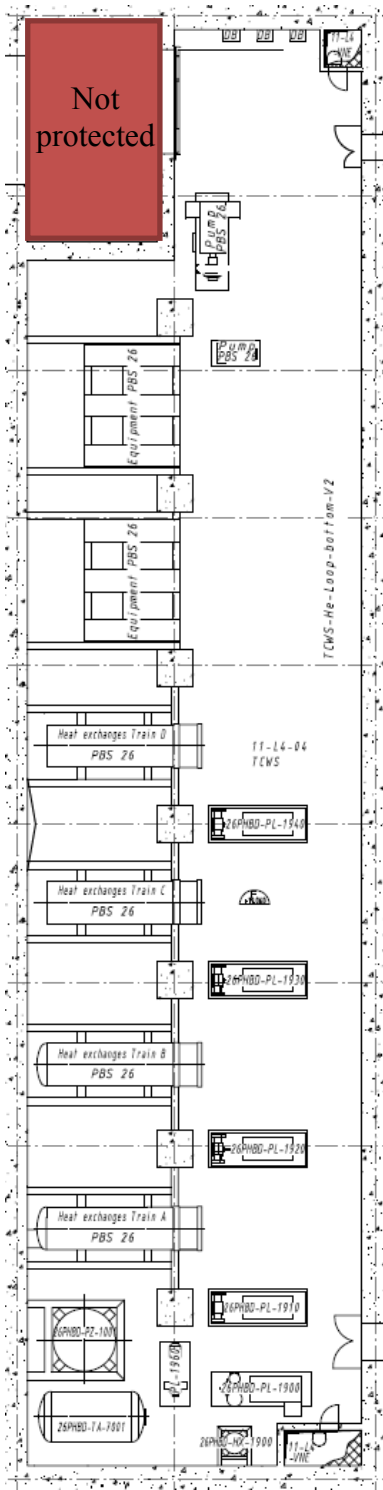


Figure 5: L4 level

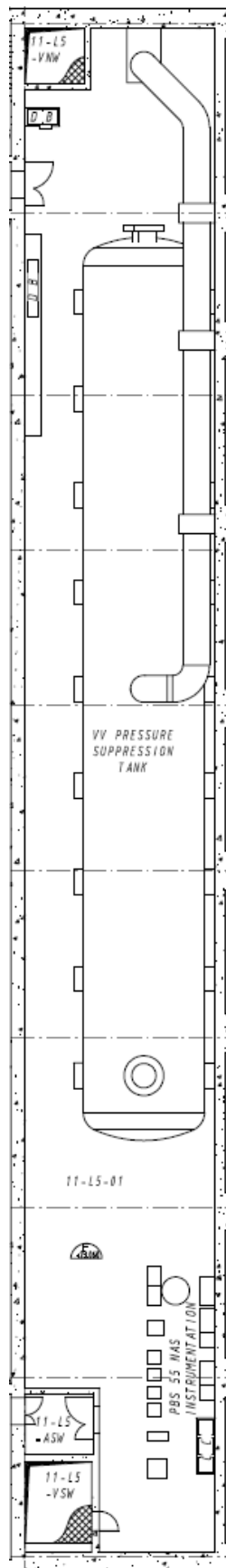


Figure 6: L5 level