

EA Equipment for East Area Renovation

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ENGINEERING
DEPARTMENT

Equipment and Supports

Code	Description	Quantity and Location	Production Readiness
XCET	Cerenkov Counters	2 on T09 2 on T10	3D design on going
XTCX	Fixed collimator	1 on T09	3D design done, 2D drawings on going
HTCAA	Support XTCX	1	3D design done, 2D drawings on going
XCSV	Collimator 2 blocs Vertical	2 on T10 1 on T11	2 On stock + 1 NEW
XCHV	Collimator 4 blocks	3 on T09 1 on T10	On stock but complete renovation to be done
UNI	Supports Collimators	7	?
XCON	Absorber/converter	2 on T09 1 on T10	3D model to be done
XSCI	Scintillator	2 on T09 (XSCI) 1 on T10 (XSCI) 1 on T11 (XSCI)	Given from BI
HLGAC	Support absorber/converter (MAUVE)	7	Available on stock for installation
XWCM	Multi wire proportional chamber	1 on T08	installed
HXWCM	Support XWCM	1	installed
XION	Ionization Chamber	1 on T08	Installed
HXION	Support XION	1 on T08	Installed
BXBPF	Beam profile monitor for experimental areas (VESSEL)	2 on T09 1 on T10 1 on T11	3D/2D design done, production on going
UNI	Support BXBPF	4	Recovered from AD
?	Support BTV	5	Recovered ready for installation
HBCTB	Support beam current transformer BCTF	1 on F61	Recovered ready for installation
HBLSD	Support Spill mesurement LSD	1 on F61	Recovered ready for installation
HXSEC	Support XSEC	1 on F61 1 on F62 1 on F63 2 on T08	Recovered ready for installation

Cerenkov Counters - XCET

XCET	Cerenkov Counters	2 on T09 2 on T10	3D design on going
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Documents circulating under approval:

- **EDMS 2192779** Engineering Specification of the Cerenkov Counters of the Experimental Areas
- **EDMS 2114239** User Requirements for XCET Detectors after LS2

EAST AREA: 4 XCET to be produced

- 4 bodies with supports already available
- Windows standards taken from NP validated design
- Procurement of mirrors? (recover the existing ones?)
- Control Panel to be done
- Complete assembly with body chambers and windows to be done
- Pressure test from HSE to be done

XCON and XSCI

XCON	Absorber/converter	2 on T09 1 on T10	3D model to be done
XSCI	Scintillator	2 on T09 (XSCI) 1 on T10 (XSCI) 1 on T11 (XSCI)	from BI
HLGAC	Support absorber/converter (MAUVE)	7	4 recovered from T09 and T10 3 on stock

XCON: thickness and material decided

- 3D design to be
- Control SMM

- **Second XSCI on T10 requested by BI**
Integration updated

Wire and Ionization Chambers

XWCM	Multi wire proportional chamber	1 on T08	installed
HXWCM	Support XWCM	1 on T08	installed
XION	Ionization Chamber	1 on T08	Installed
HXION	Support XION	1 on T08	Installed

Already installed, no modifications

→ **Gas supply for XWCM on T08 to be redone**

Second XION to be installed in T08?

Beam Profile Monitors - XBPF

BXBPF	Beam profile monitor for experimental areas (VESSEL)	2 on T09 1 on T10 1 on T11	3D/2D design done, production on going
UNI	Support BXBPF	4	Taken from AD

BXBPF



3D model ready
2D drawings ready

Production 4 vessels to be done with external company
Assembly chez nous
2 windows + 2 flanges for device to be procured? (EA-VIDE)
Interface with adjusting base to be produced (angle regulation)

Support UNI + adjusting table recovered from AD

Supports

?	Support BTV	5	Recovered ready for installation
HBCTB	Support beam current transformer BCTF	1 on F61	Recovered ready for installation
HBLSD	Support Spill measurement LSD	1 on F61	Recovered ready for installation
HXSEC	Support XSEC	1 on F61 1 on F62 1 on F63 2 on T08	Recovered ready for installation

Recoverd as they are (stocked @ CHARM), **ready to be installed**

(BTV names to be checked) On F62 BTV support name PSZBTVMC0028

BCT recovered from linac 2 (BI resposible) with already flanges



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Thank you!