

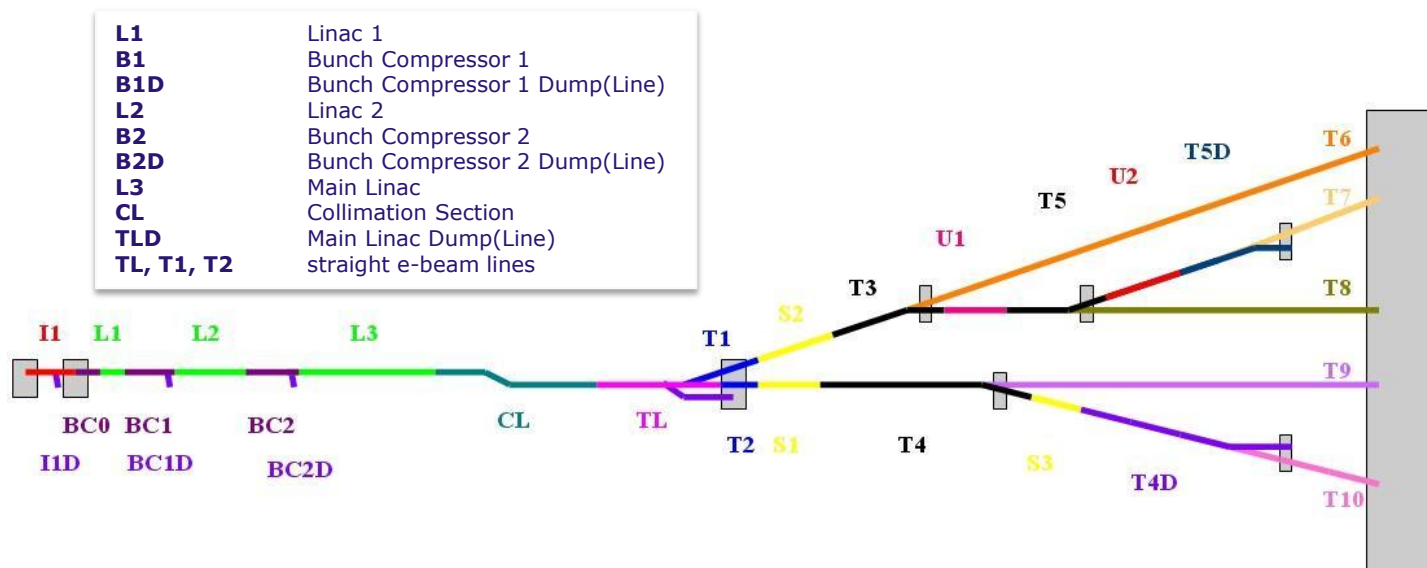
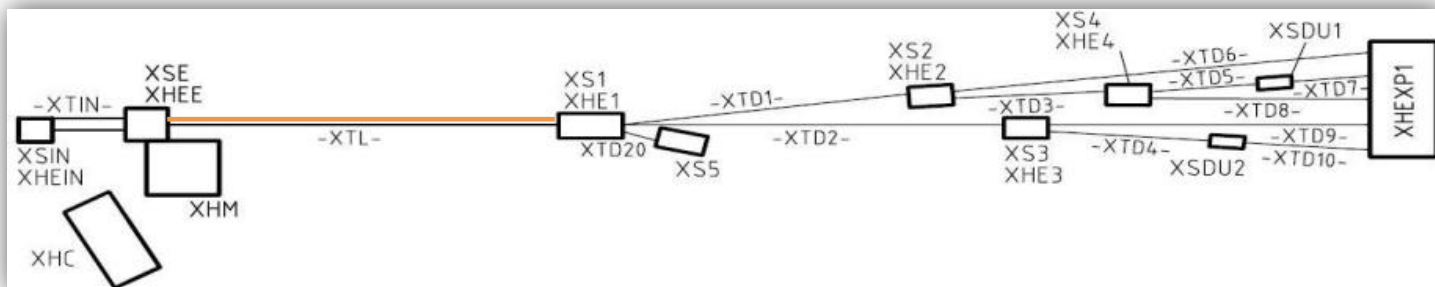
Electronics Racks for XFEL

Overview of XTL Tunnel

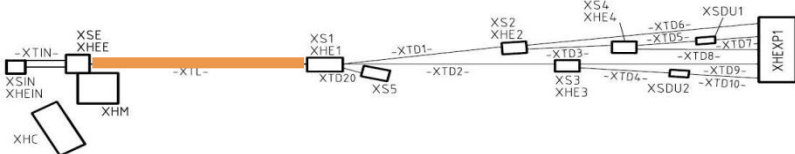


XTL Tunnel

89,55 m – 2100,05 m



Additional information: [XTL Appendix](#)

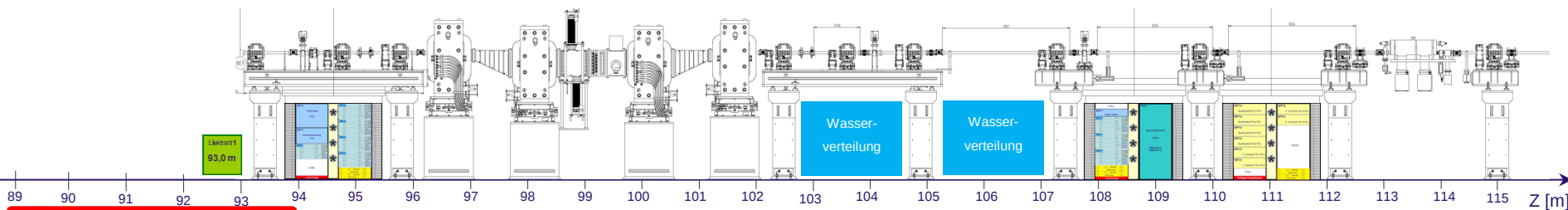


XTL

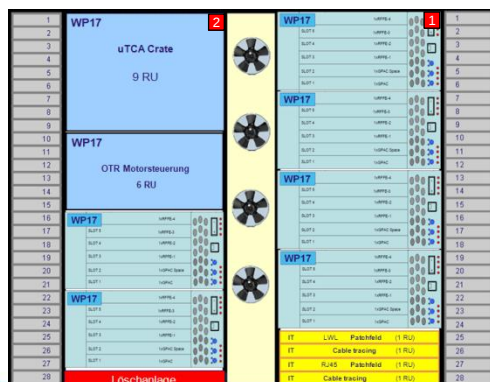
Room 001

001

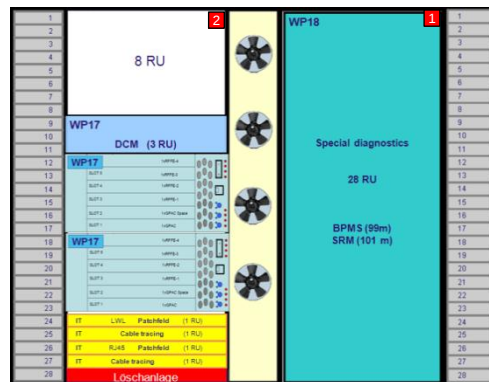
89,55 m - 141,55 m (L1)



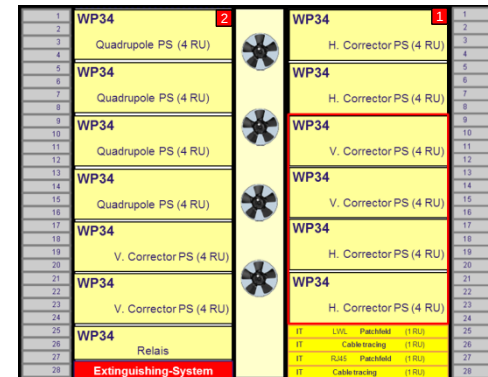
Elektant 1
93,0 m



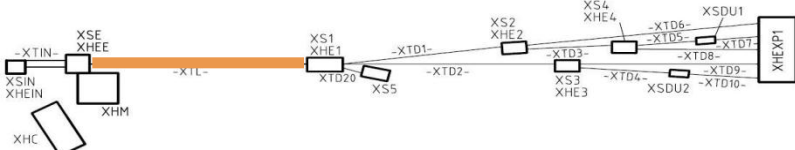
Diagnostics at 93,8 m
XTL_I1.S2_R04



Diagnostics at 107,8 m
XTL_I1.S2_R18



PS at 110,2 m
XTL_I1.S2_R21

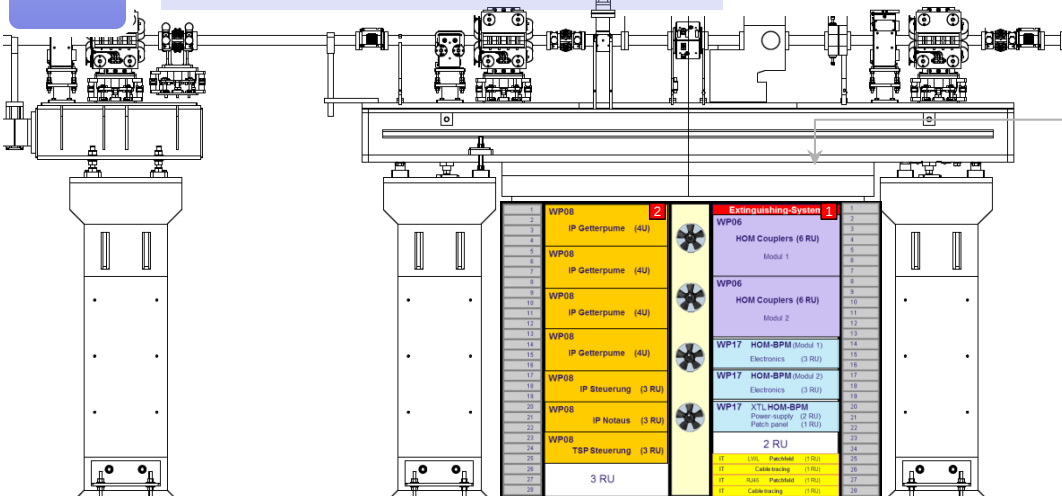


XTL

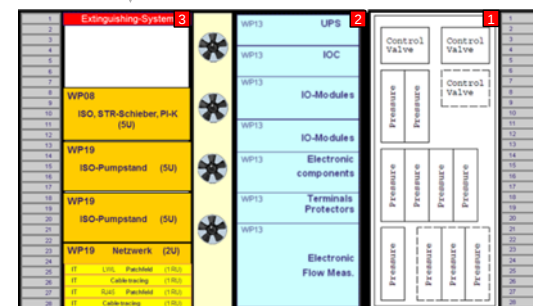
Room 001

001

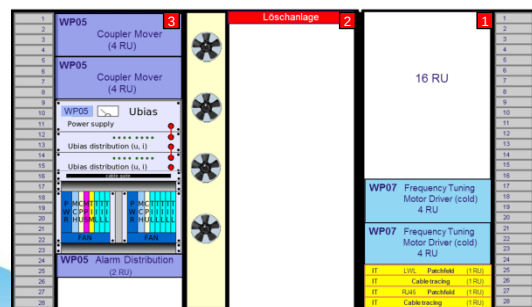
89,55 m - 141,55 m (L1)



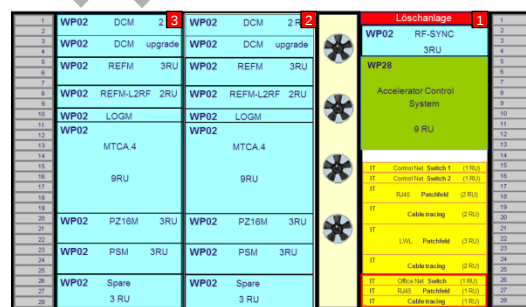
PS/Vacuum at 116,59 m
XTL_1.S2_R27



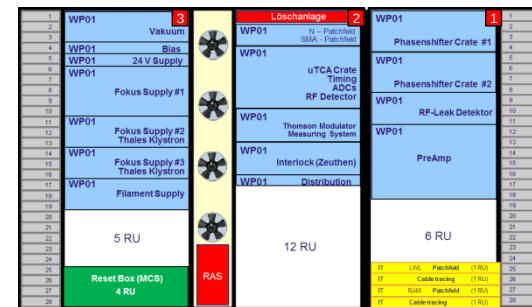
Cryo/Vacuum at 122,88 m
XTL_L1.A2_R01



LLRF I at 127,699 m
XTL_L1.A2_R04



LLRF I at 130,549 m
XTL_L1.A2_R07

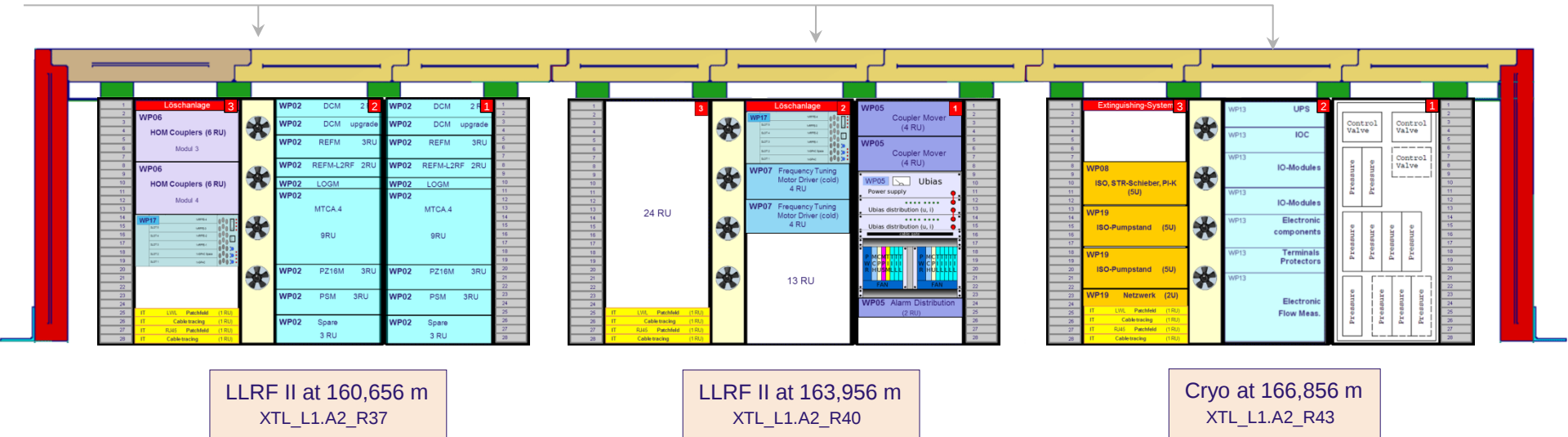
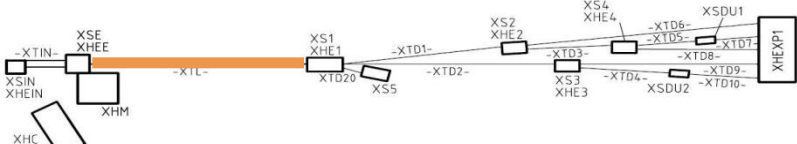


RF at 138,349 m
XTL_L1.A2_R15

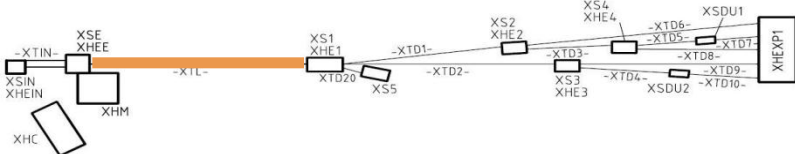
Room 002

002

141,55 m - 193,55 m (L1)



Elektrant 2
170,9 m



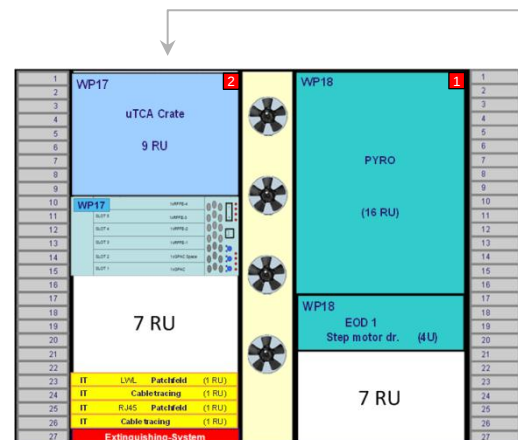
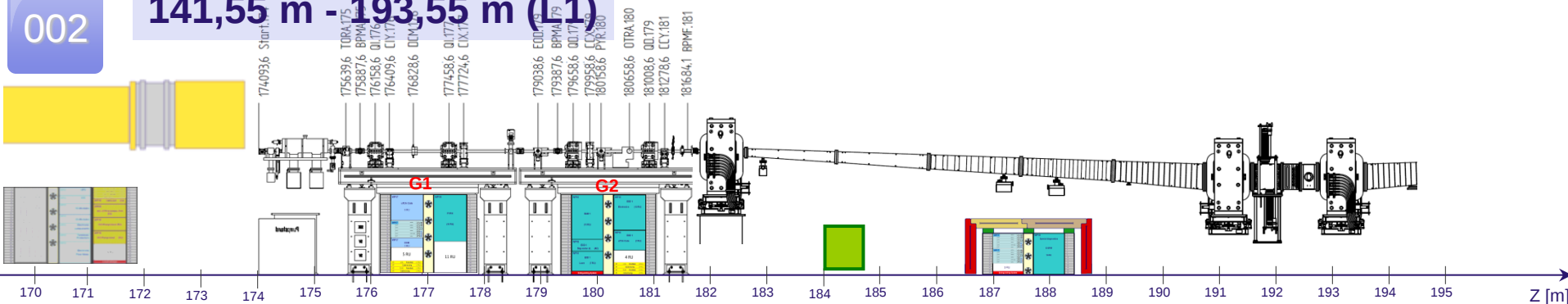
XTL

Room 002 (BC1)

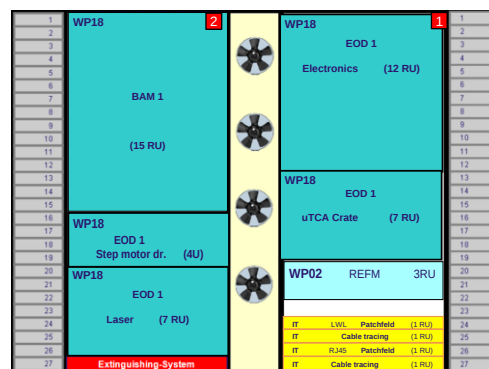
Bunch compressor BC1: 173,49 m – 231,89 m

002

141,55 m - 193,55 m (I 1)



Cabinet at 176,2m
XTL_B1.S1_R02

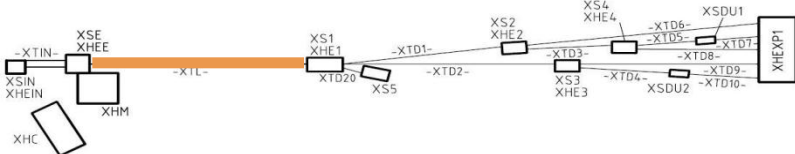


Cabinet at 179,42 m
XTL_B1.S1_R05

Elektrant 1
184,00 m



Cabinet at 186,89 m
XTL_B1.S1_R12



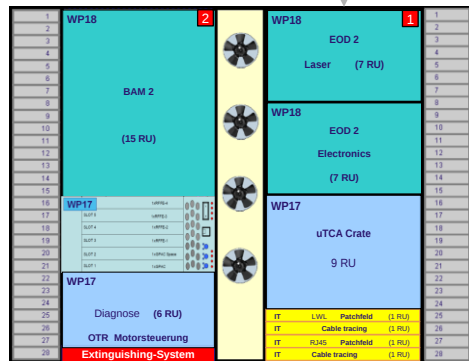
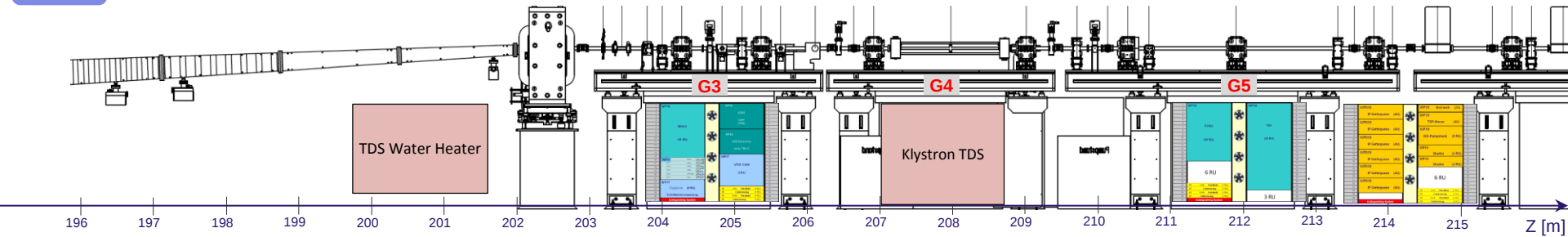
XTL

Room 002 (BC1)

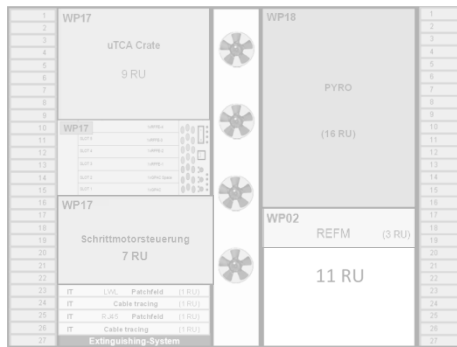
Bunch compressor BC1: 173,49 m – 231,89 m

003

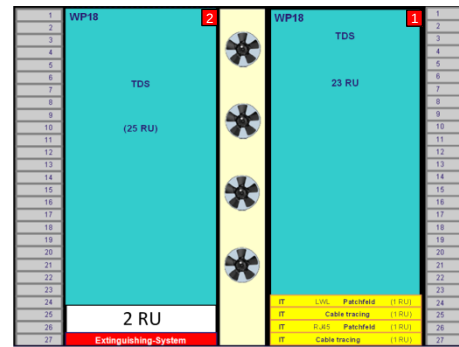
193,55 m - 245,55 m (L2)



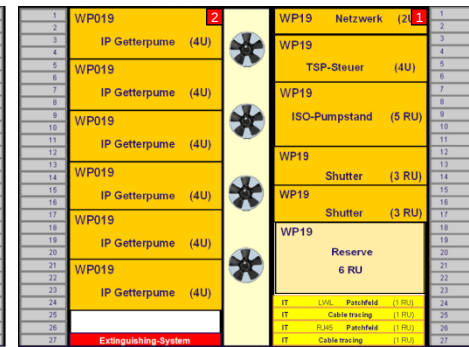
Cabinet at 203,83 m
XTL_B1.S2_R01



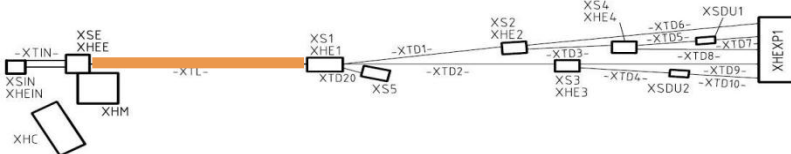
Cabinet at 206,... m
XTL_B1.S2_R03



Cabinet at 211,05 m
XTL_B1.S2_R08



Cabinet at 213,45 m
XTL_B1.S2_R10

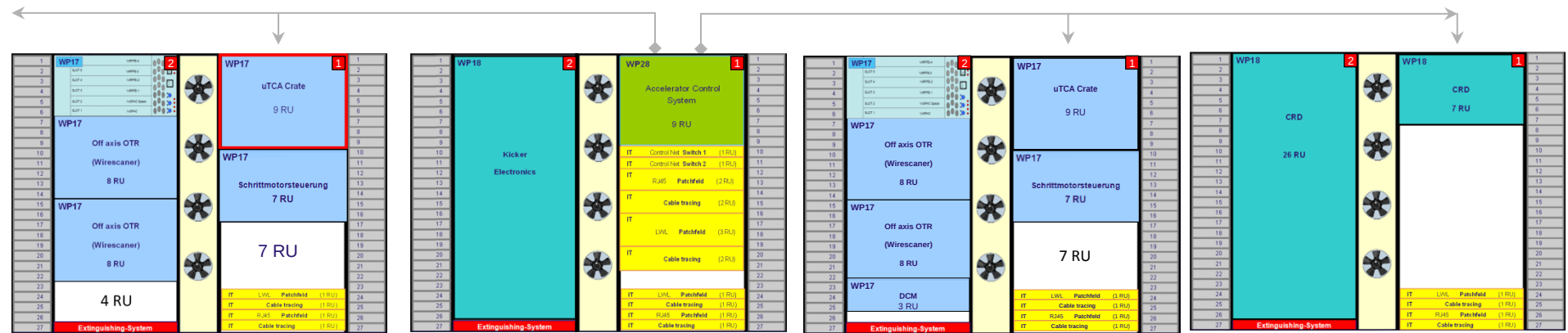
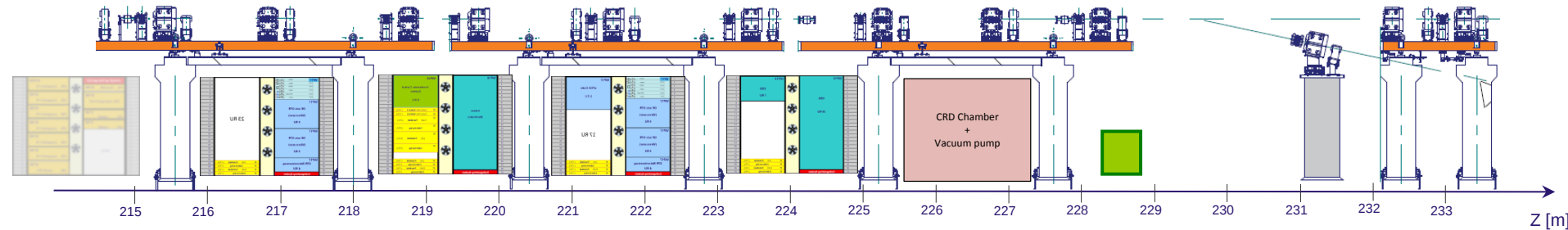


XTL Room 002 (BC1)

Bunch compressor BC1: 173,49 m – 231,89 m

003

193,55 m - 245,55 m (L2)



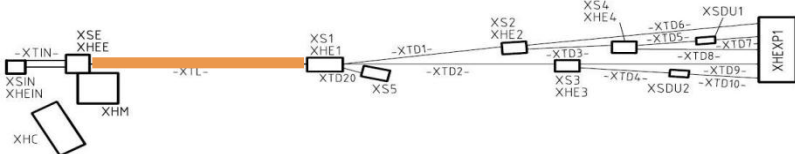
Cabinet at 215,82 m
XTL_B1.S2_R12

Cabinet at 218,28 m
XTL_B1.S2_R15

Cabinet at 220,65m
XTL_B1.S2_R17

Cabinet at 223,07 m
XTL_B1.S2_R20

Elektrant 2
228 m

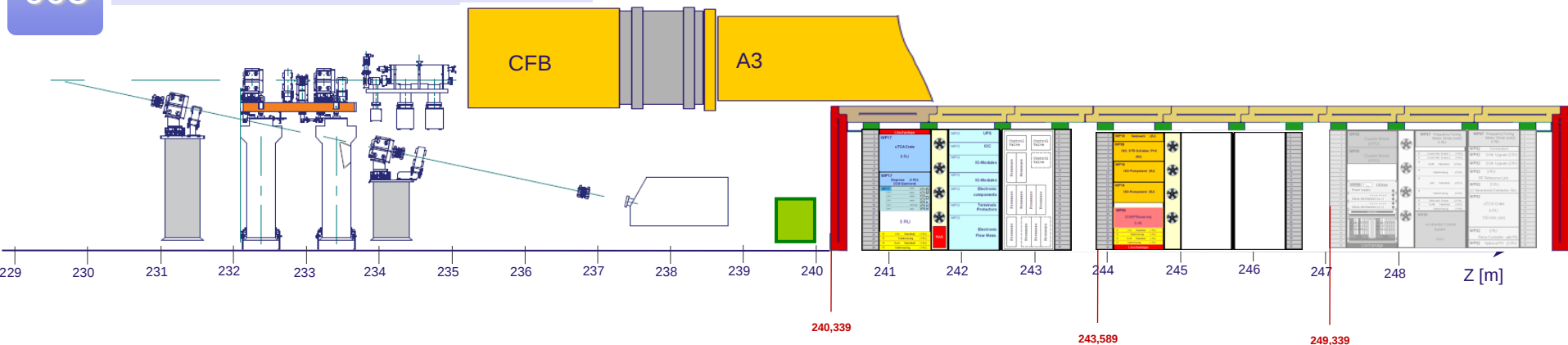


XTL

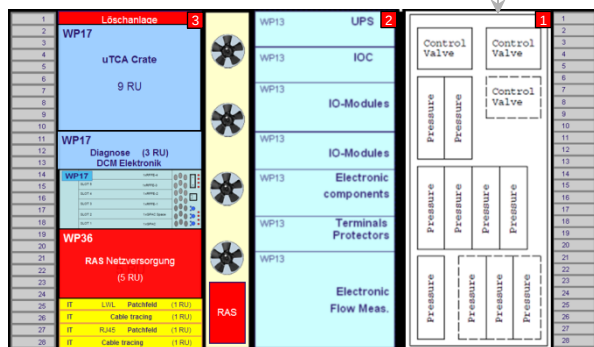
Room 003

003

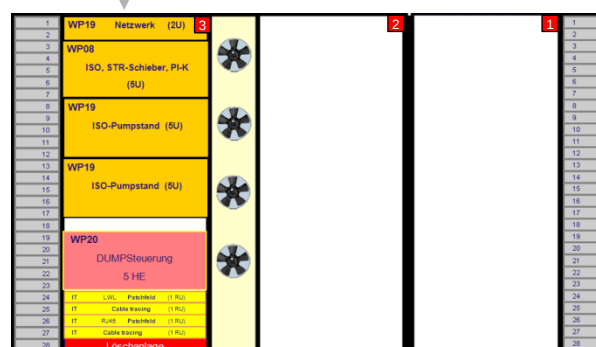
193,55 m - 245,55 m (L2)



Elektant 1
242,7 m



Cryo at 240,339 m
XTL_L2.A3_R02



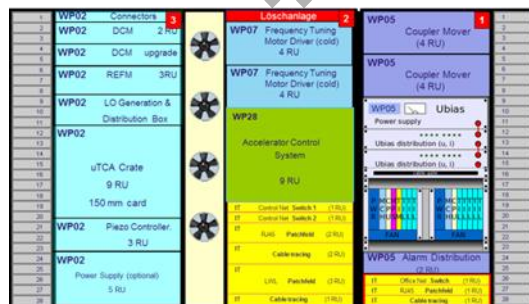
Vacuum at 243,589 m
XTL_L2.A3_R05

XTL

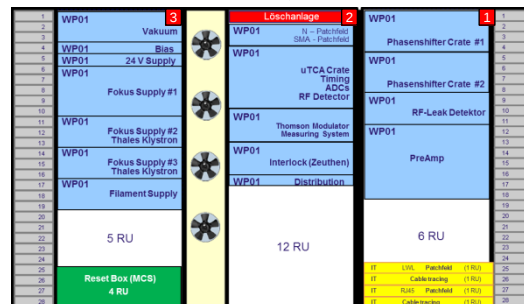
Room 004

004

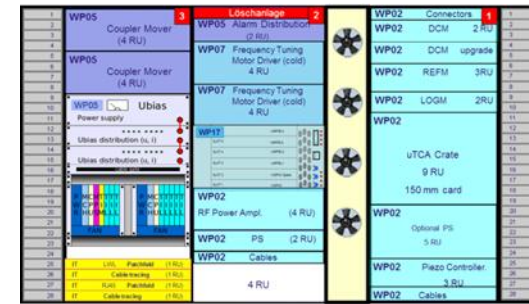
245,55 m - 297,55 m (L2)



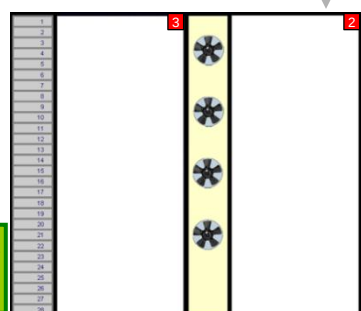
LLRF I at 246,439 m
XTL L2.A3 R08



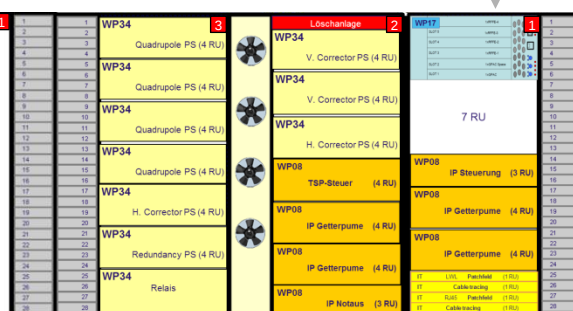
RF at 253,839 m
XTL L2.A3 R15



LLRF II at 276,146 m
XTL L2.A3 R37



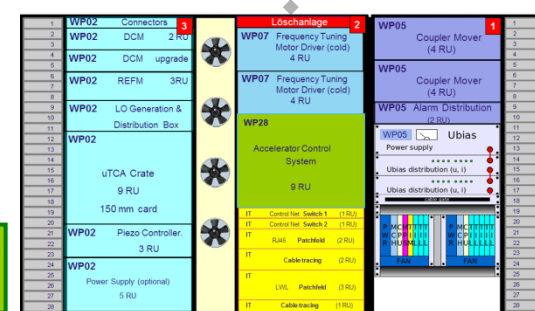
Elektrant 2
279,2 m



Spare at 279,396 m
XTL L2.A3 R38

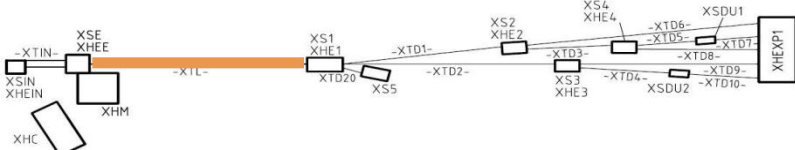
Unterverteilung

290 m



Elektrant :
294 m

LLRF I at 294,009 m
XTL L2.A4 R08

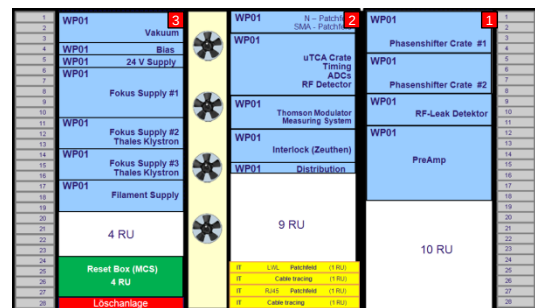


XTL

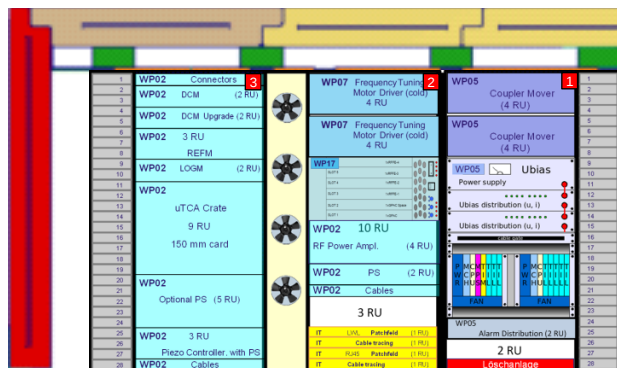
Room 005

005

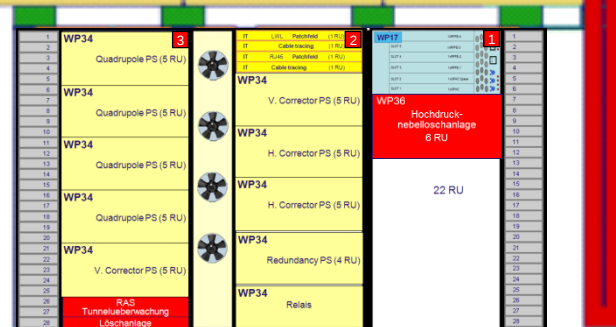
297,55 m - 349,55 m (L2)



RF at 301,809 m
XTL_L2.A4_R15



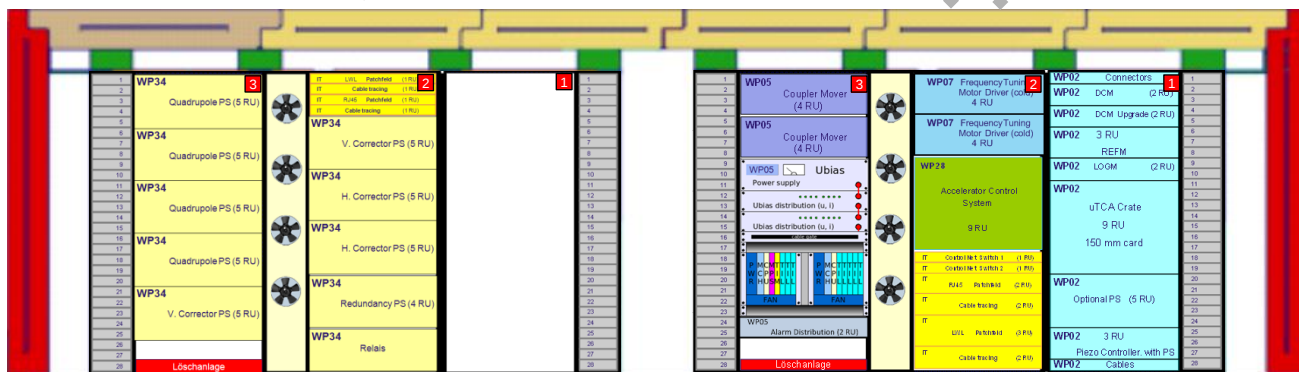
LLRF II at 324,116 m
XTL_L2.A4_R37



PS at 327,366 m
XTL_L2.A4_R40

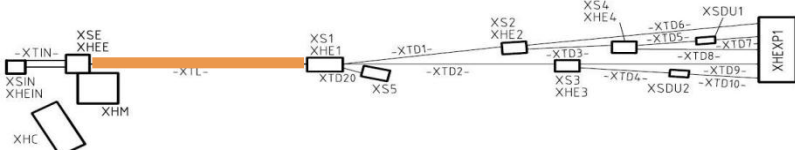
Elektrant 2
327 m

Elektrant 1
342,15



PS at 339,129 m
XTL_L2.A5_R04

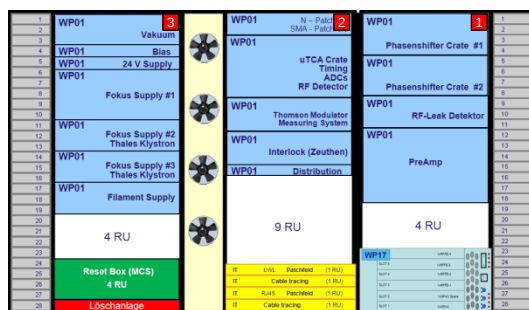
LLRF I at 342,379 m
XTL_L2.A5_R08



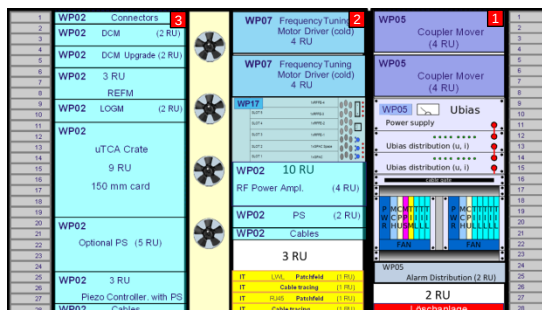
Room 006

006

349,55 m - 401,55 m (L2)

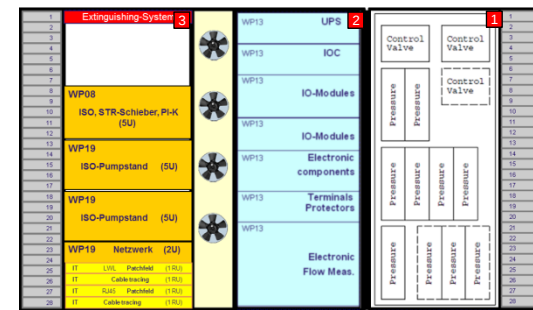


RF at 349,779 m
XTL_L2.A5_R15

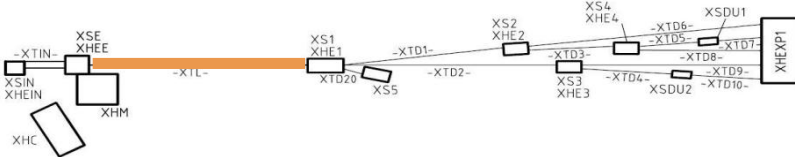


LLRF II at 372,086m
XTL_L2.A5_R37

Elektrant 2
375,00



Cryo/Vacuum at 378,98 m
XTL_L2.A5_R44



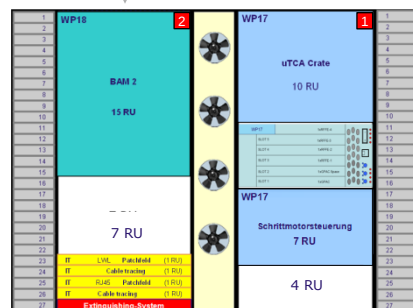
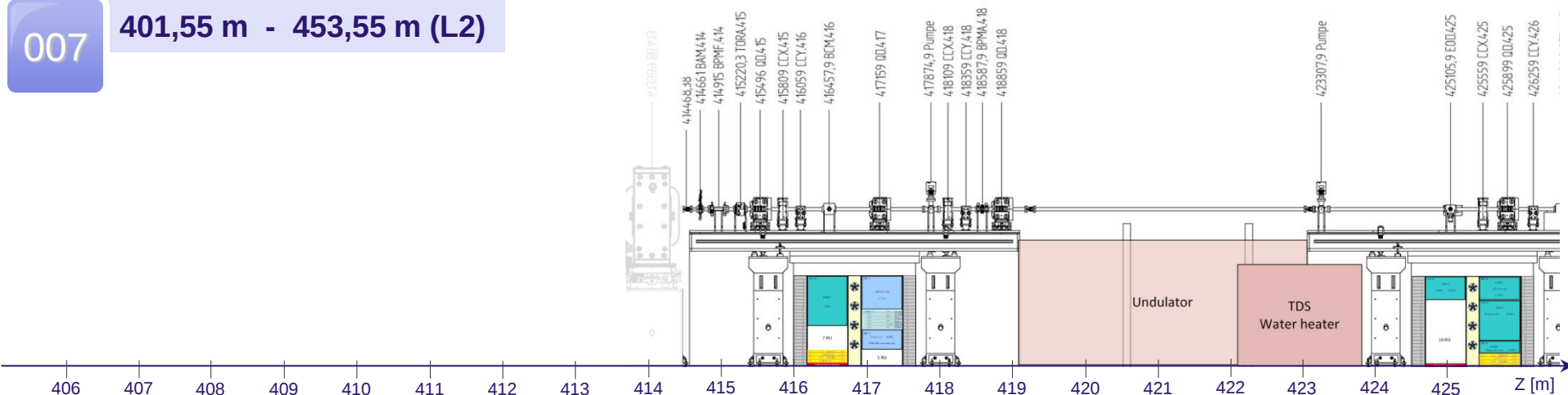
XTL

Room 007 (BC2)

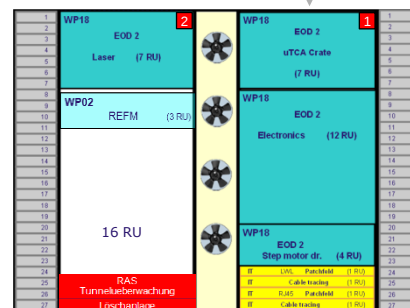
Bunch compressor BC2: 386 m – 466 m

007

401,55 m - 453,55 m (L2)



Cabinet at 415,97 m
XTL_B2.S2_R01

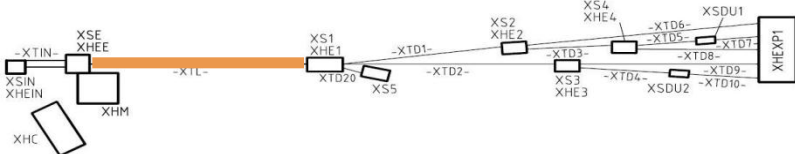


Cabinet at 424,56 m
XTL_B2.S2_R10

XTL

Bunch compressor BC2: 386 m – 466 m

401,55 m - 453,55 m (L2)



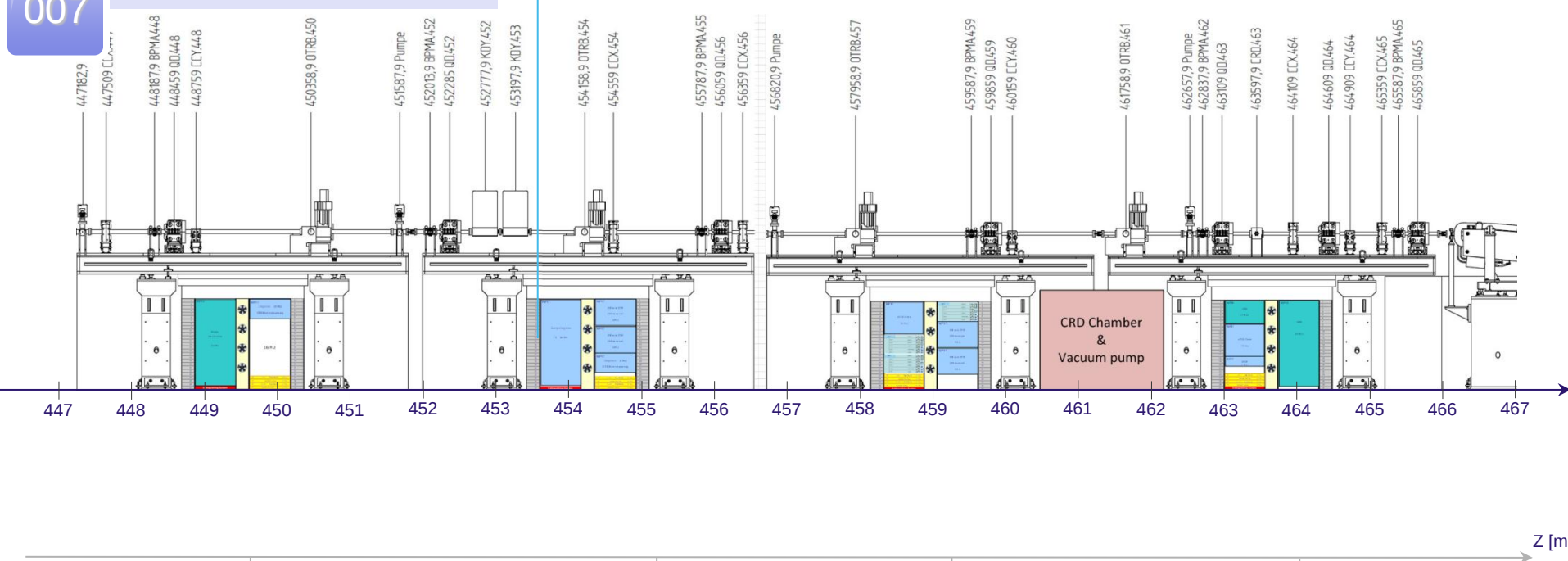
XTL

Room 007 (BC2)

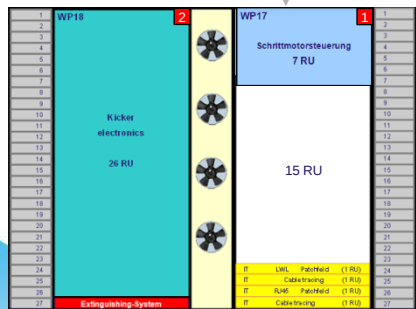
Bunch compressor BC2: 386 m – 466 m

007

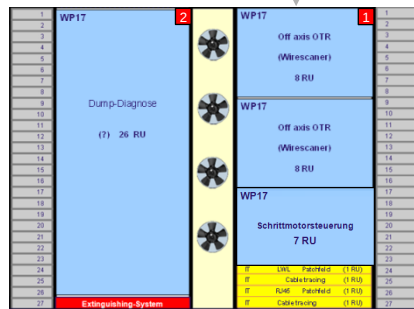
401,55 m - 453,55 m (L2)



Z [m]

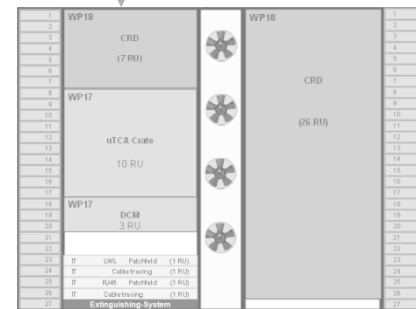
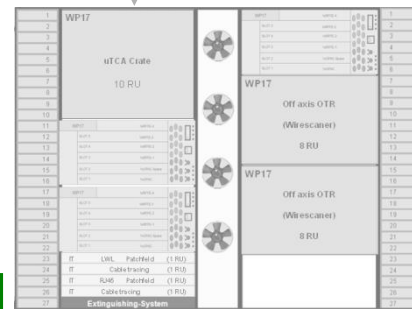


Cabinet at 448,56 m
XTL_B2.S2_R34

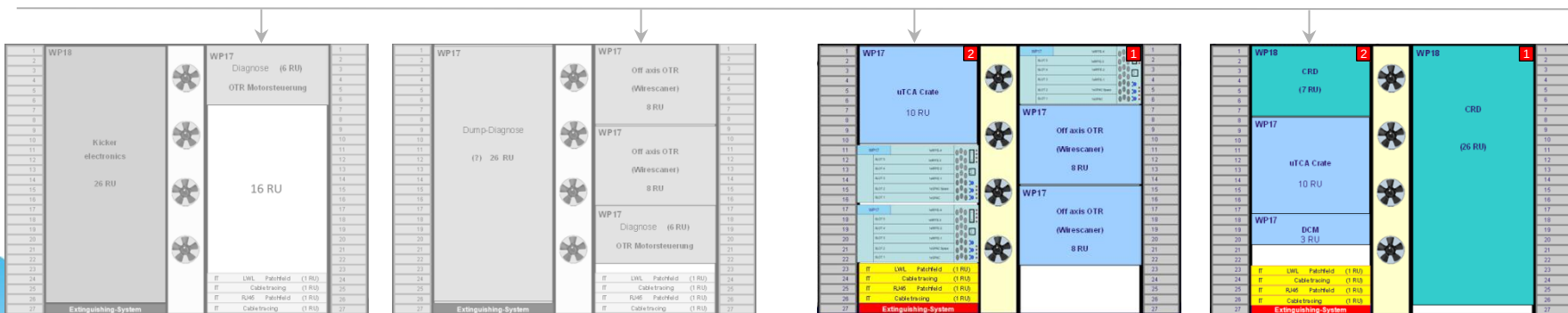


Cabinet at 453,36 m
XTL_B2.S2_R39

Elektrant 1
465,4

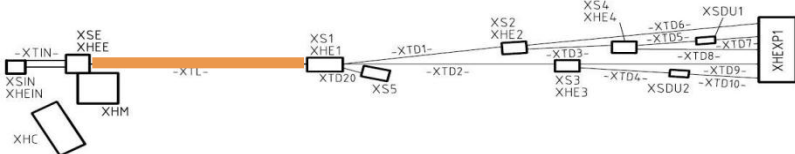


453,55 m - 505,55 m (L2)



Cabinet at 462,96 m
XTL B2.S2 R48

Electronics Racks for XFEL
Last update: 18.08.2014, E. Negodin



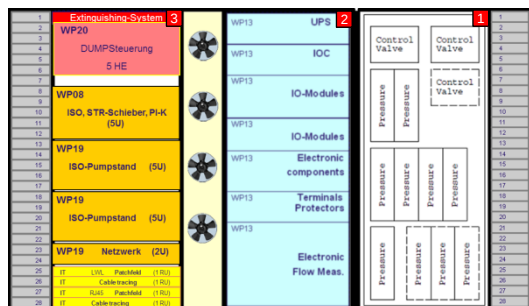
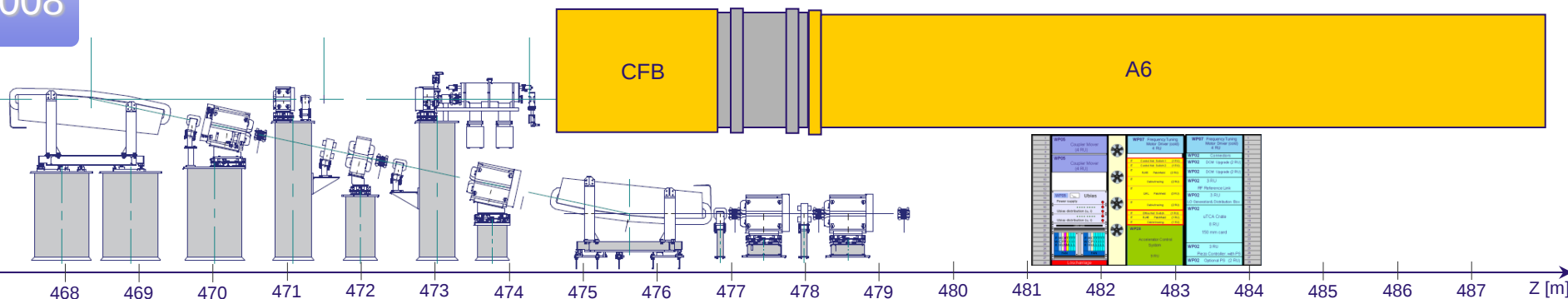
XTL

Room 008 (BC2)

Bunch compressor BC2: 386 m – 466 m

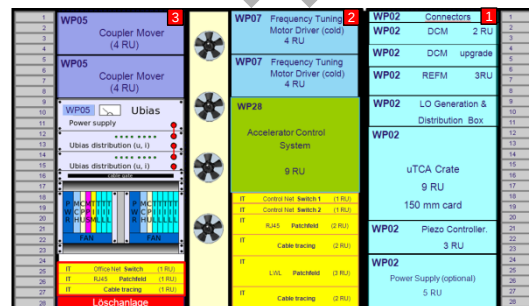
008

453,55 m - 505,55 m (L2)

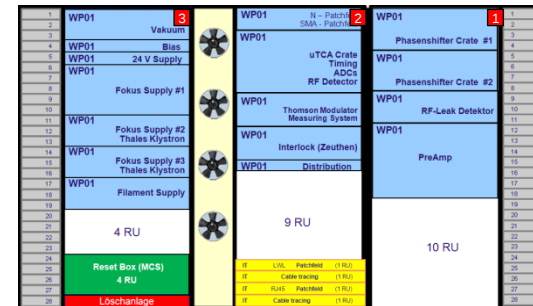


Cryo at 481,919 m
XTL_L3.A6_R04

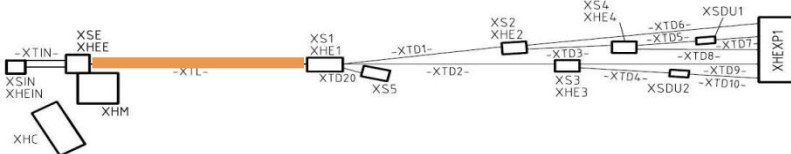
Elektrant 1
480,0



LLRF I at 484,819 m
XTL_L3.A6_R07



RF at 492,619 m
XTL_L3.A6_R15

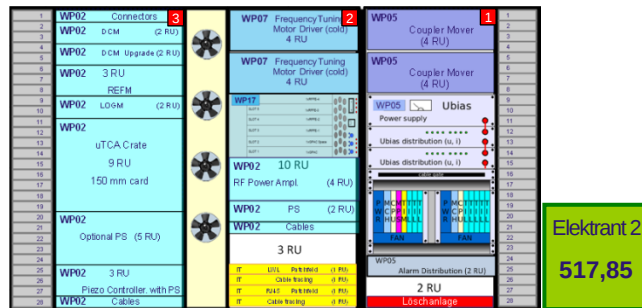


XTL

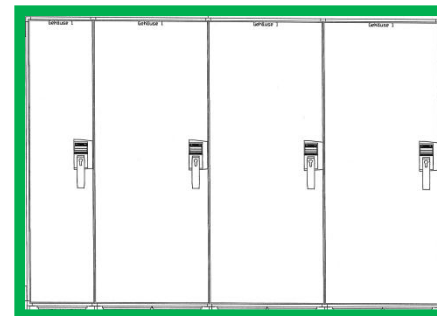
Room 009

009

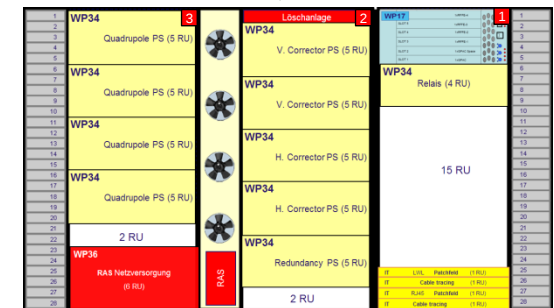
505,55 m - 557,55 m (L3)



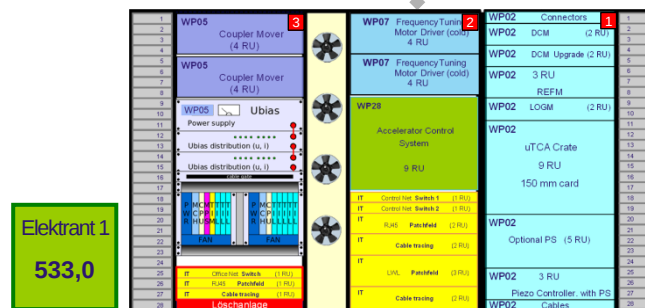
LLRF II at 514,96 m
XTL_L3.A6_R37



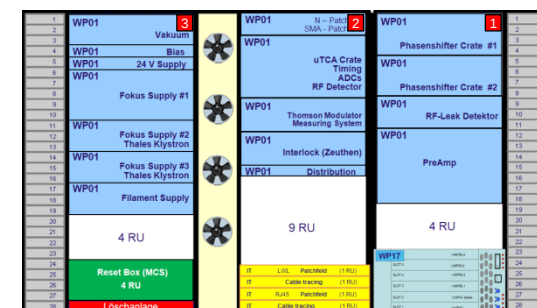
Unterverteilung 519,2 m



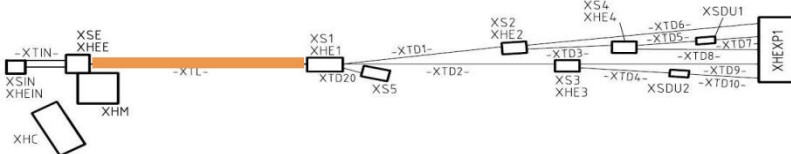
PS at 521,82 m
XTL_L3.A6_R44



LLRF I at 532,789 m
XTL_L3.A7_R07



RF at 540,545 m
XTL_L3.A7_R15

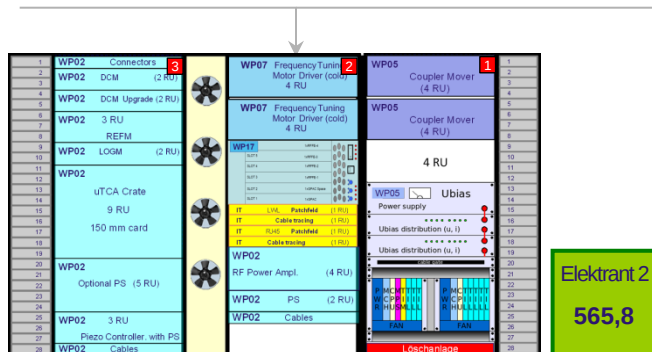


XTL

Room 010

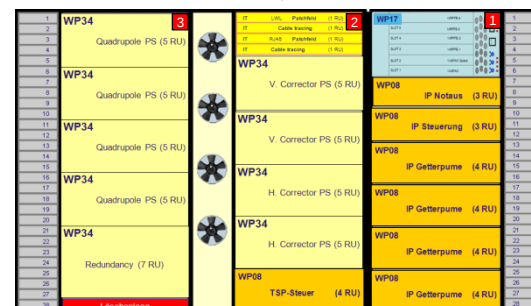
010

557,55 m - 609,55 m (L3)

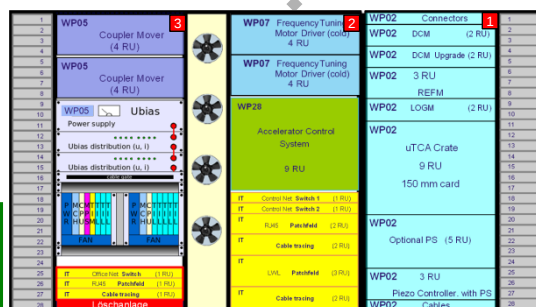


Elektrant 2
565,8

LLRF II at 562,896 m
XTL_L3.A7_R37

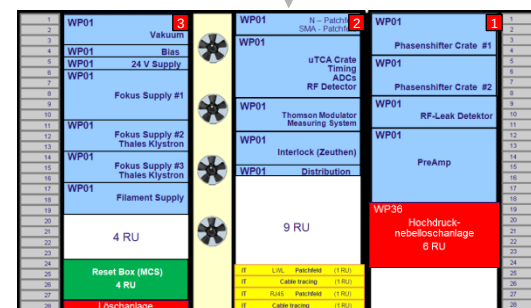


PS at 569,79 m
XTL_L3.A7_R44



Elektrant 1
579,95

LLRF I at 580,759 m
XTL_L3.A8_R07



RF at 588,559 m
XTL_L3.A8_R15

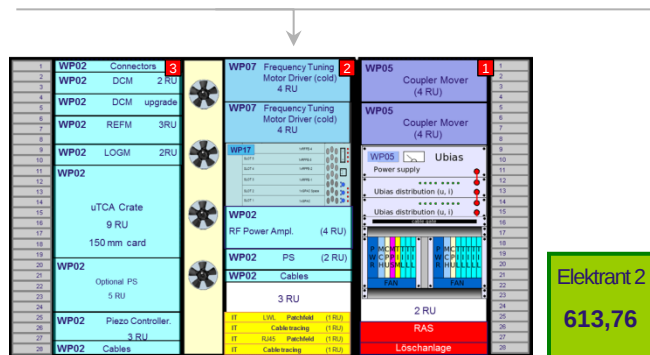
XTL

Room 011

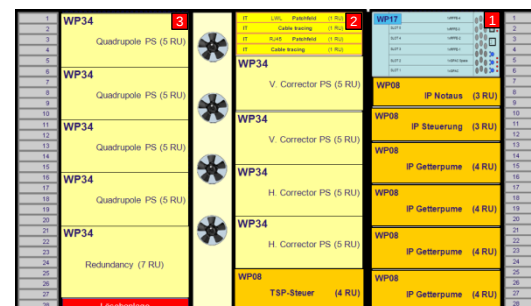
011

609,55 m - 661,55 m (L3)

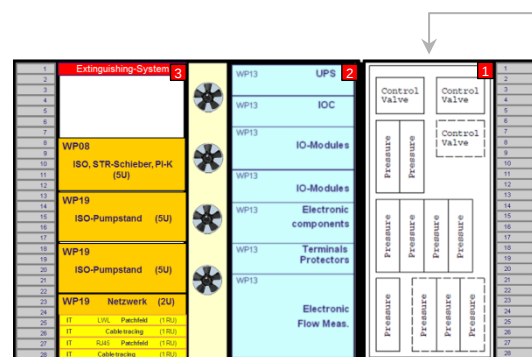
PS / Vacuum at 617,76 m



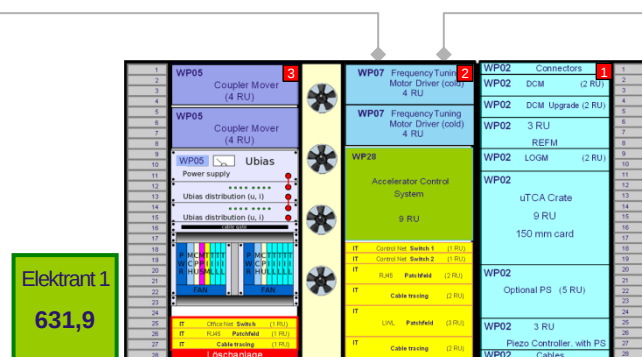
LLRF II at 610,866 m
XTL L3.A8 R37



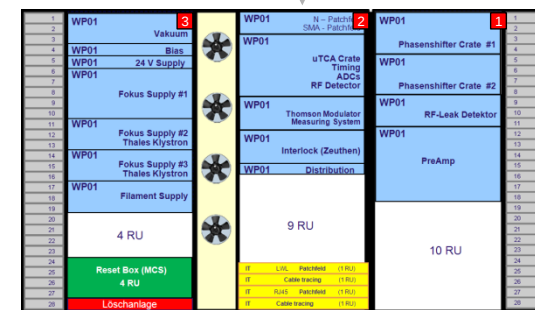
PS at 617,758m
XTL L3.A8 R44



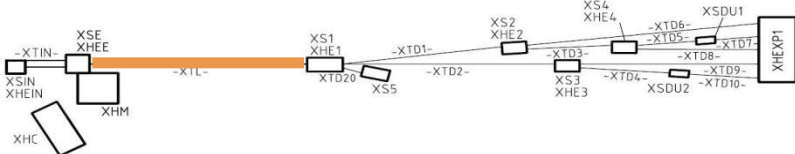
Cryo at 624,05 m
XTL L3.A9 R01



LLRF I at 631,719 m
XTL L3.A9 R07



RF at 639,519 m
XTL L3.A9 R15

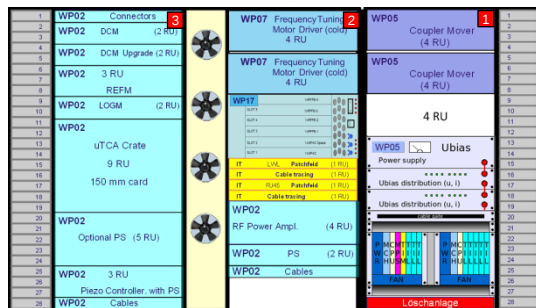


XTL

Room 012

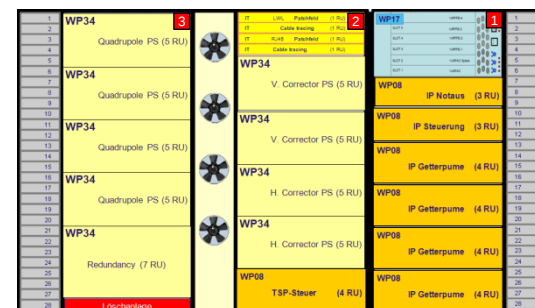
012

661,55 m - 713,55 m (L3)

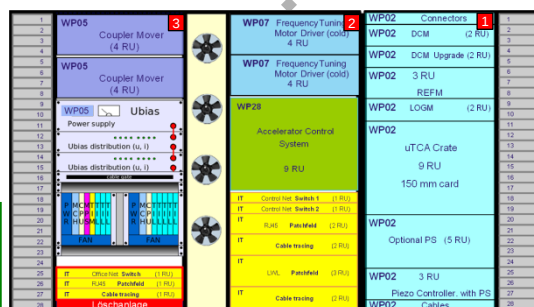


Elektrant 2
664,75

LLRF II at 661,826 m
XTL_L3.A9_R37

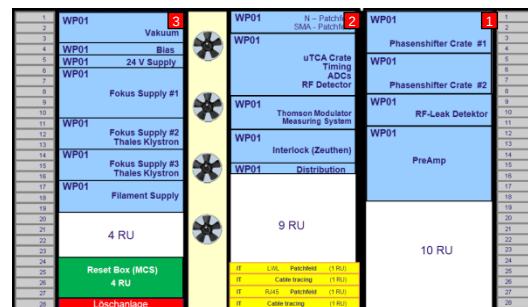


PS at 668,718 m
XTL_L3.A9_R44

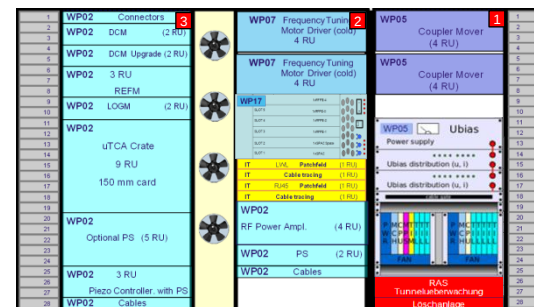


Elektrant 1
679,9

LLRF I at 679,689 m
XTL_L3.A10_R07

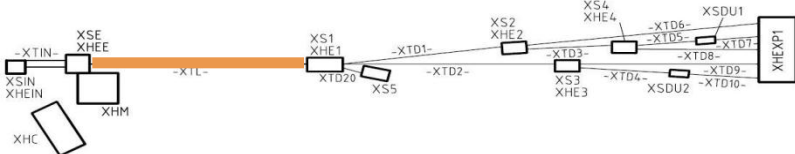


RF at 687,489 m
XTL_L3.A10_R15



Elektrant 2
712,7

LLRF II at 709,796 m
XTL_L3.A10_R37



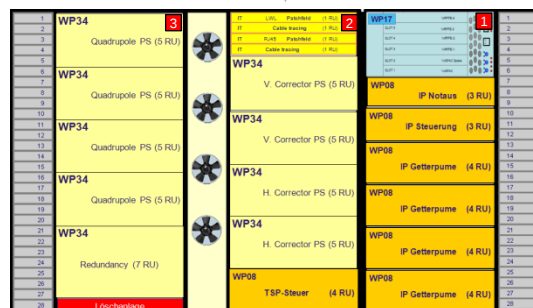
Room 013

013

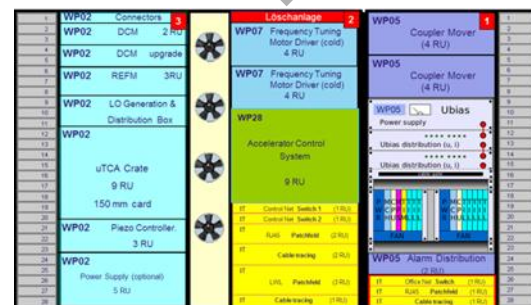
713,55 m - 765,55 m (L3)



Unterverteilung, 714,60 m

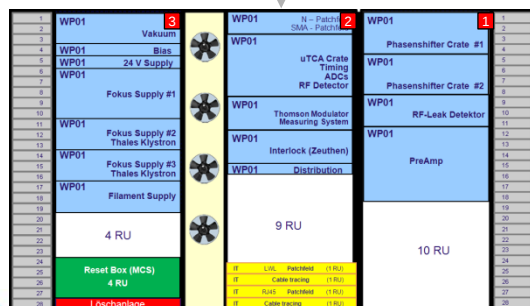


PS at 716,688 m
XTL_L3.A10_R44

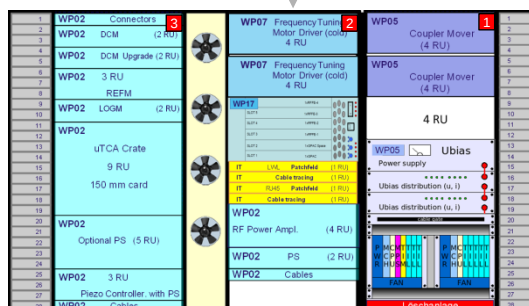


LLRF I at 727,659 m
XTL_L3.A11_R07

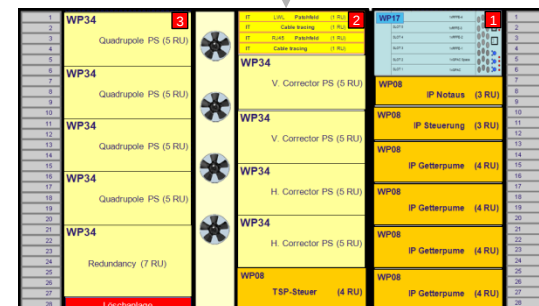
Elektrant 1
727,95



RF at 735,459 m
XTL_L3.A11_R15

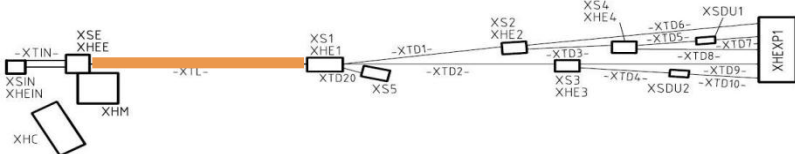


LLRF II at 757,766 m
XTL_L3.A11_R37



PS at 764,658 m
XTL_L3.A11_R44

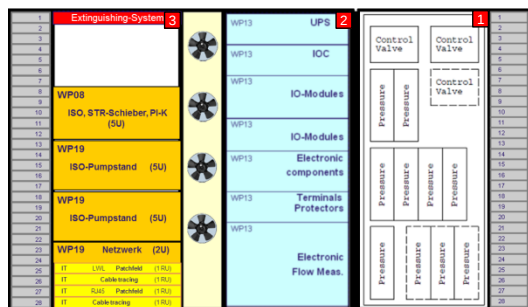
Elektrant 2
760,65



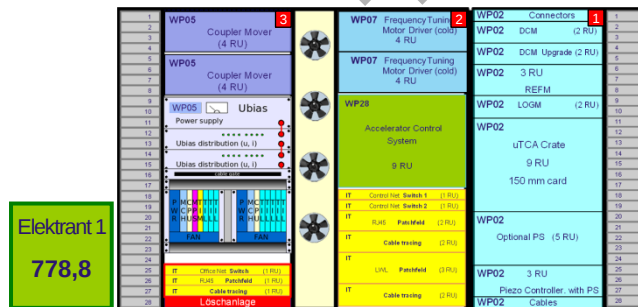
Room 014

014

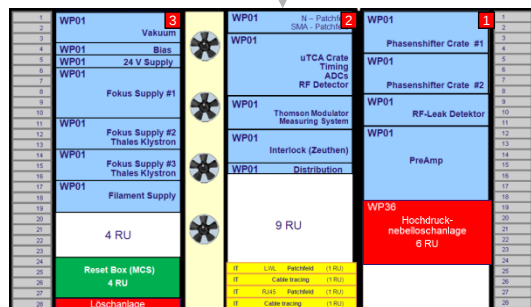
765,55 m - 817,55 m (L3)



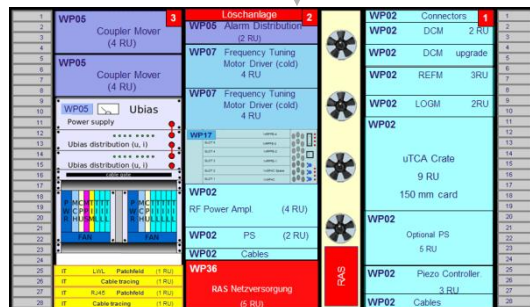
Cryo at 770,95 m
XTL_L3.A12_R01



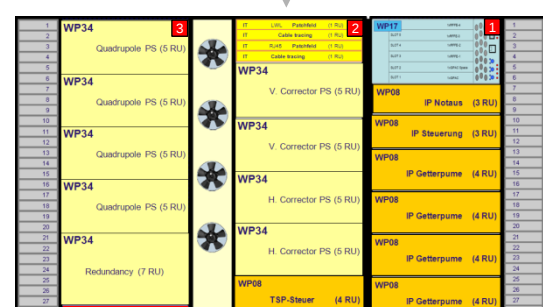
LLRF I at 778,619 m
XTL_L3.A12_R07



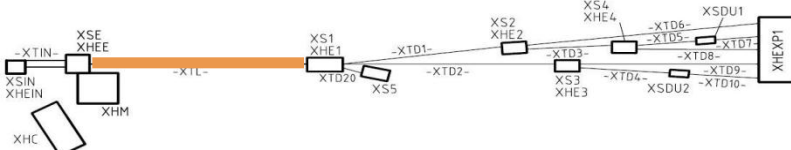
RF at 786,419 m
XTL_L3.A12_R15



LLRF II at 808,726 m
XTL_L3.A12_R37



PS at 815,618 m
XTL_L3.A12_R44

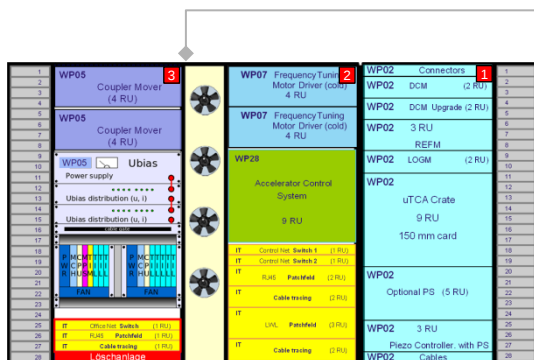


XTL

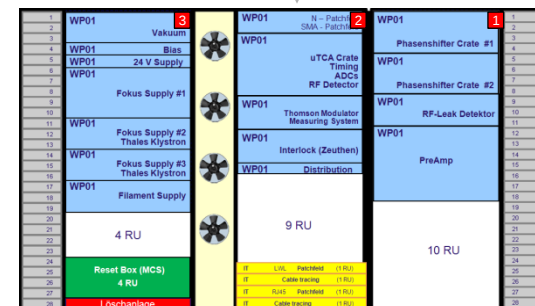
Room 015

015

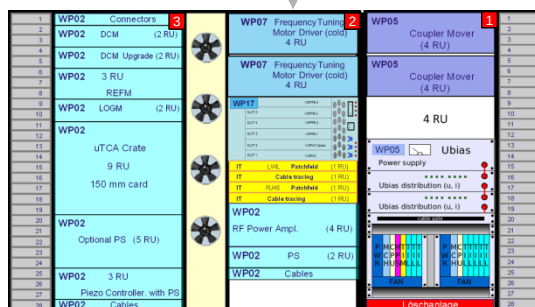
817,55 m - 869,55 m (L3)



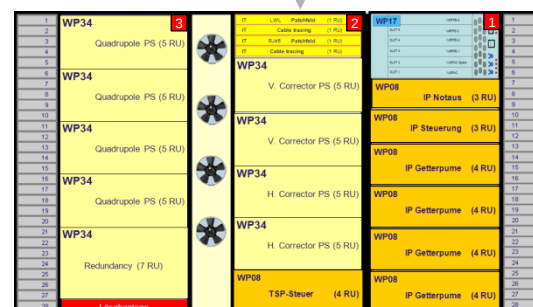
LLRF I at 826,589 m
XTL_L3.A13_R07



RF at 834,389 m
XTL_L3.A13_R15

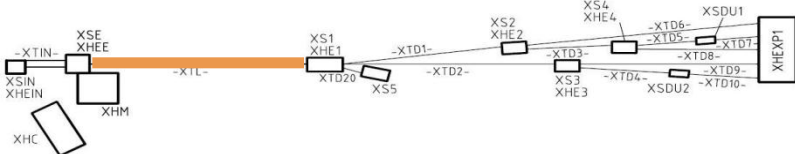


LLRF II at 856,696 m
XTL_L3.A13_R37



PS at 863,588 m
XTL_L3.A13_R44

Elektrant 2
859,6

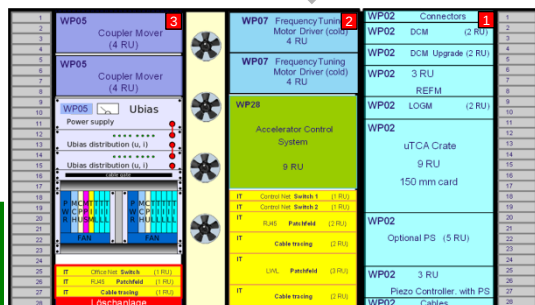


XTL

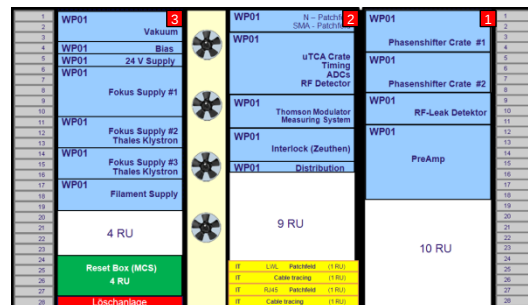
Room 016

016

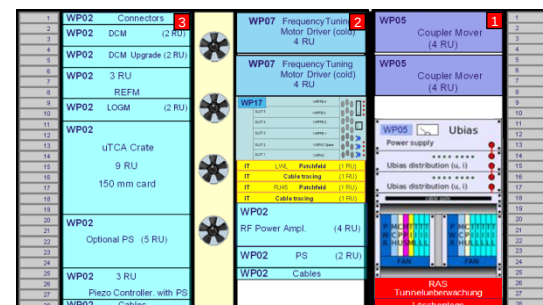
869,55 m - 921,55 m (L3)



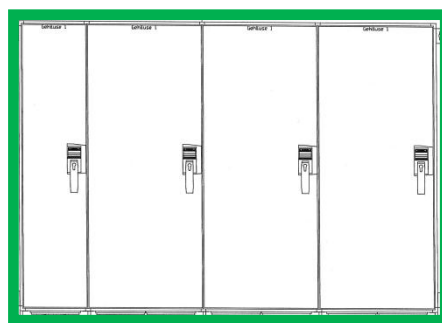
LLRF I at 874,549 m
XTL_L3.A14_R07



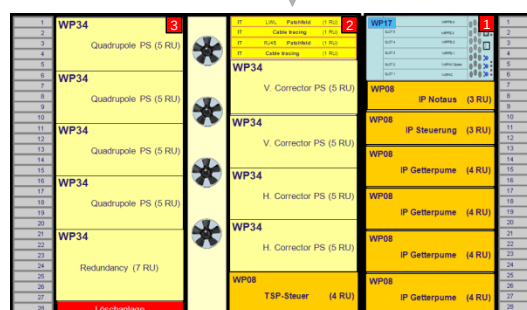
RF at 882,349 m
XTL_L3.A14_R15



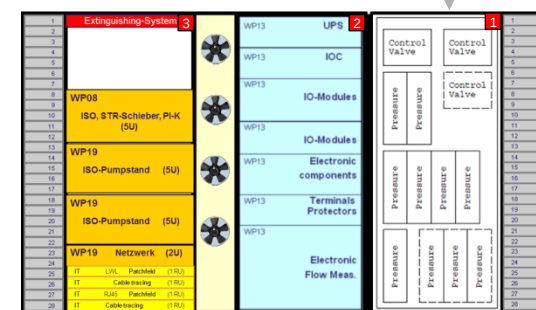
LLRF II at 904,656 m
XTL_L3.A14_R37



Unterverteilung, 909,02 m



PS at 911,548 m
XTL_L3.A14_R44



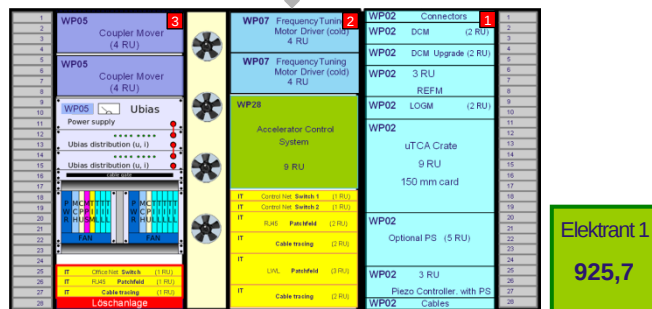
Cryo at 917,85 m
XTL_L3.A15_R01

XTL

Room 017

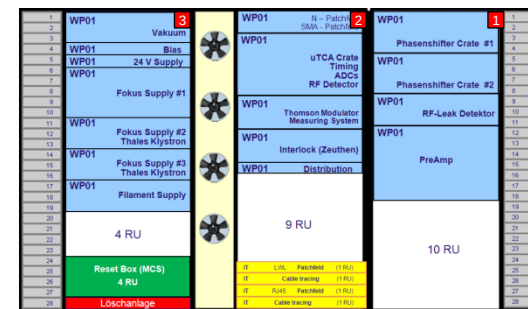
017

921,55 m - 973,55 m (L3)



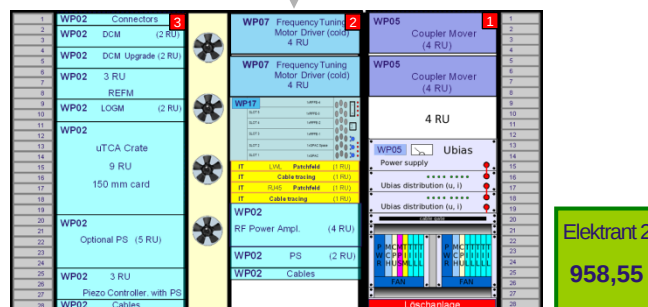
LLRF I at 925,519 m

XTL L3.A15 R07



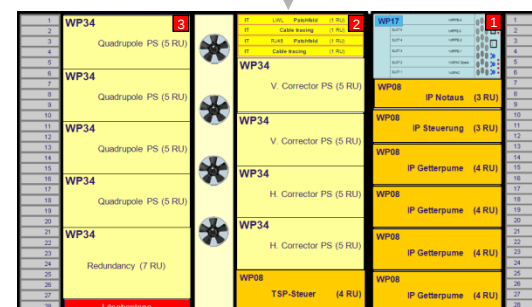
RF at 933,319 m

XTL L3.A15 R15



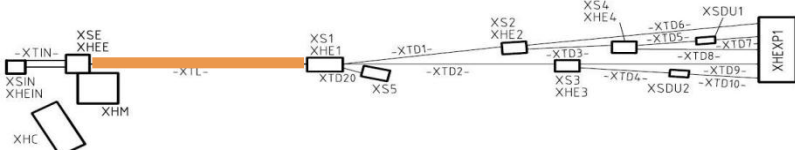
LLRF II at 955,626 m

XTL L3.A15 R37



PS at 962,518 m

XTL L3.A15 R44

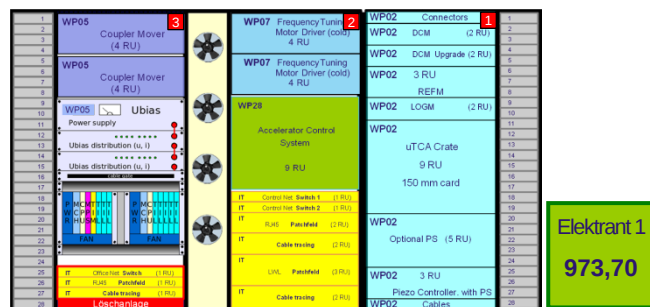


XTL

Room 018

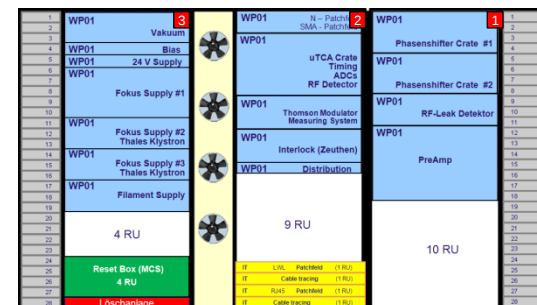
018

973,55 m - 1025,55 m (L3)

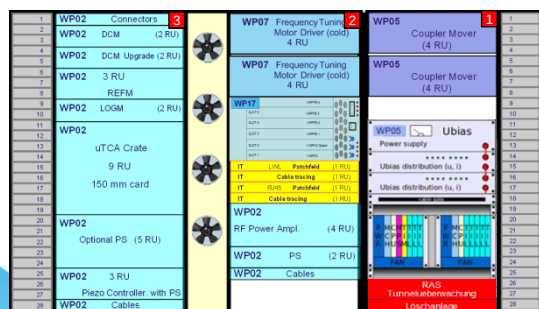


Elektrant 1
973,70

LLRF I at 973,489 m
XTL_L3.A16_R07

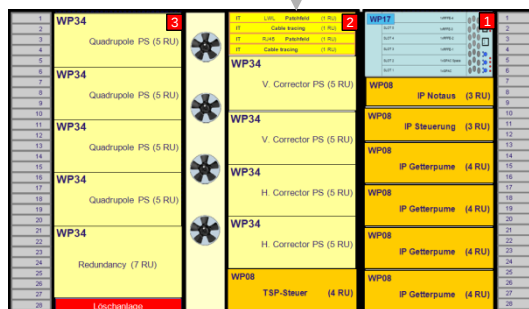


RF at 981,289 m
XTL_L3.A16_R15



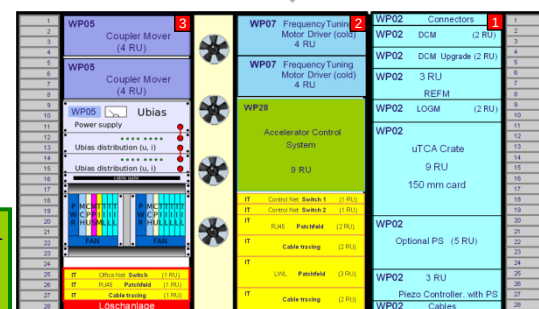
Elektrant 2
1006,5

LLRF II at 1003,596 m
XTL_L3.A16_R37

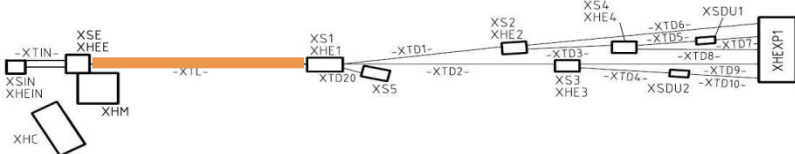


PS at 1010,488 m
XTL_L3.A16_R44

Elektrant 1
1021,6



LLRF I at 1021,449 m
XTL_L3.A17_R07

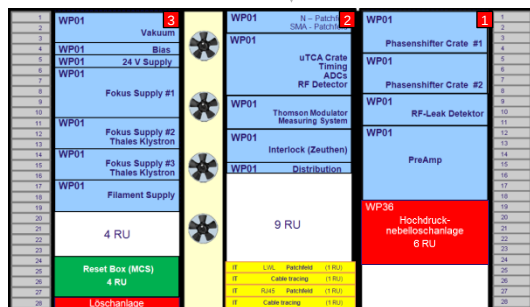


XTL

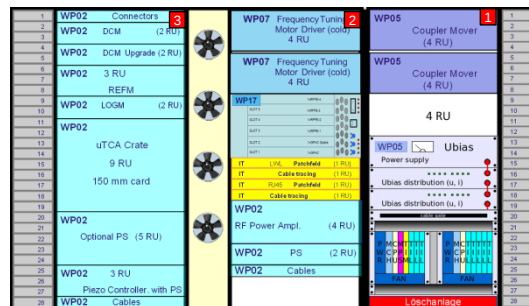
Room 019

019

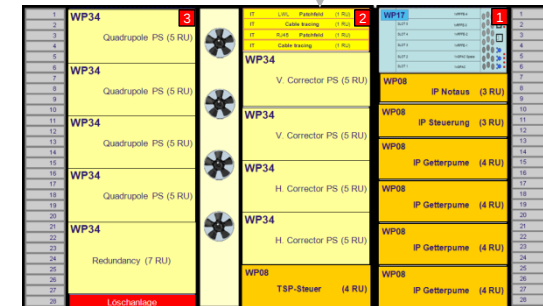
1025,55 m - 1077,55 m (L3)



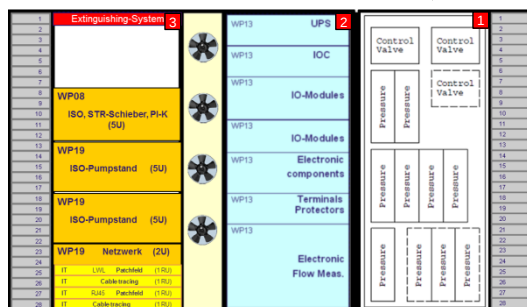
RF at 1029,249 m
XTL_L3.A17_R15



LLRF II at 1051,556 m
XTL_L3.A17_R37

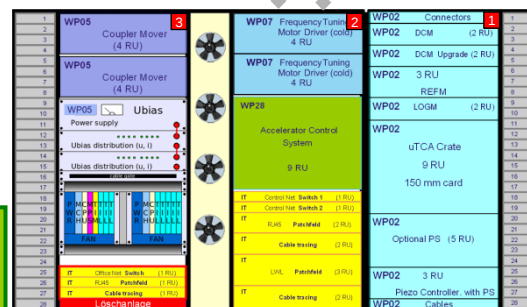


PS at 1058,448 m
XTL_L3.A17_R44

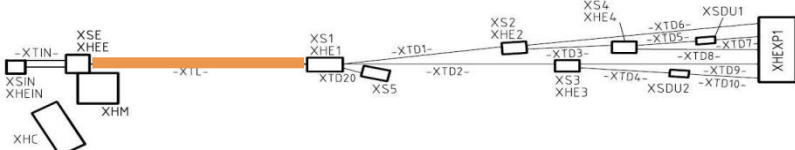


Cryo at 1064,75 m
XTL_L3.A17_R01

Elektrant 1
1072,6



LLRF I at 1072,419 m
XTL_L3.A18_R07

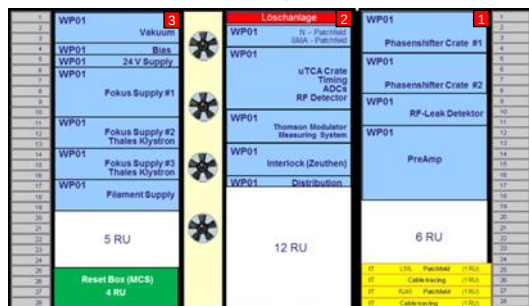


XTL

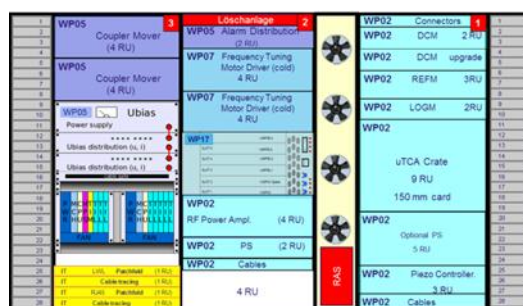
Room 020

020

1077,55 m - 1129,55 m (L3)

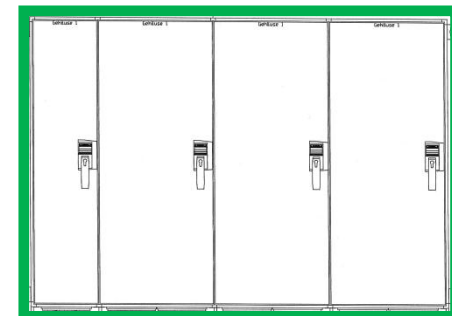


RF at 1080,219 m
XTL_L3.A18_R15

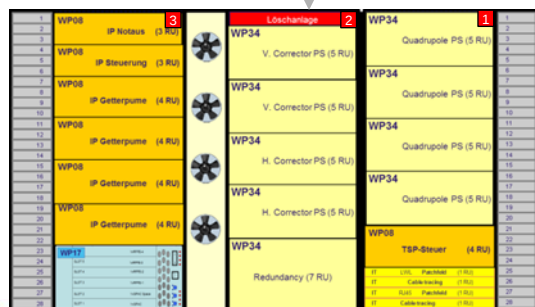


LLRF II at 1102,526 m
XTL_L3.A18_R37

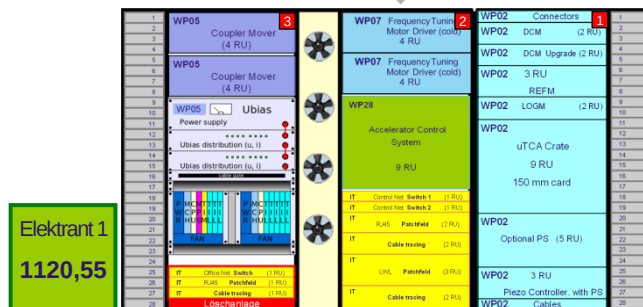
Elektrant 2
1105,45



Unterverteilung, 1106.90 m

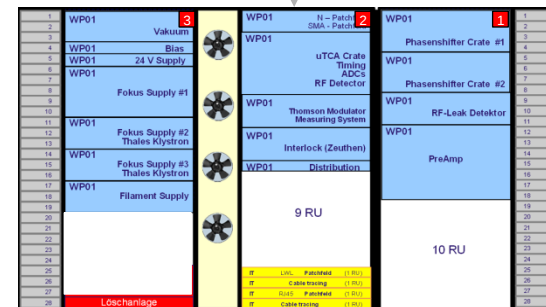


PS at 1109,418 m
XTL_L3.A18_R44



Elektrant 1
1120,55

LLRF I at 1120,379 m
XTL_L3.A19_R08



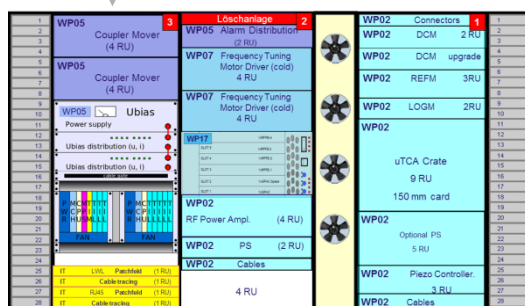
RF at 1128,179 m
XTL_L3.A19_R15

XTL

Room 021

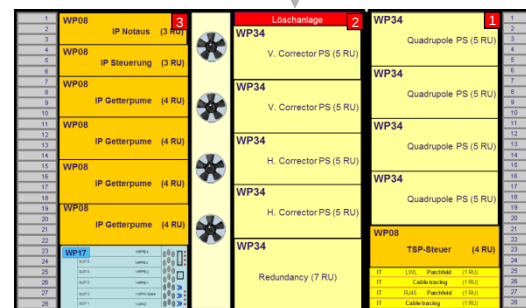
021

1129,55 m - 1181,55 m (L3)

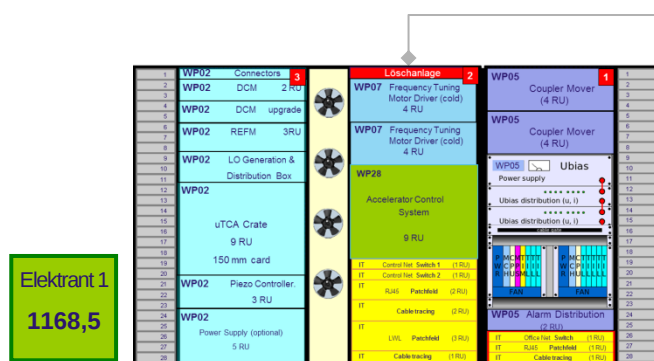


LLRF II at 1150,486 m
XTL L3.A19 R37

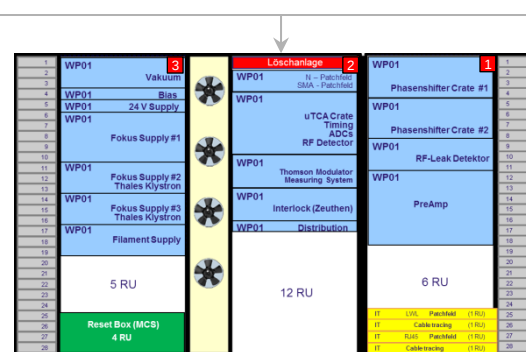
Elektrant 2	1153,40
-------------	---------



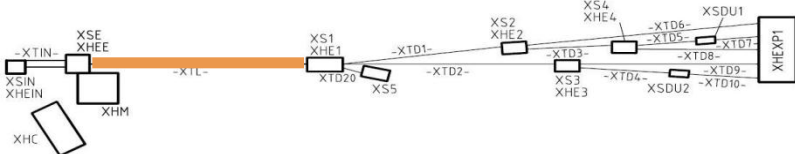
PS at 1157,378 m
XTL L3.A19 R44



LLRF I at 1168,349 m
XTL L3.A20 R08



RF at 1176,149 m
XTL L3.A20 R15

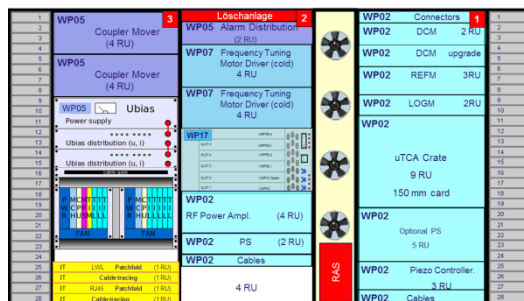


XTL

Room 022

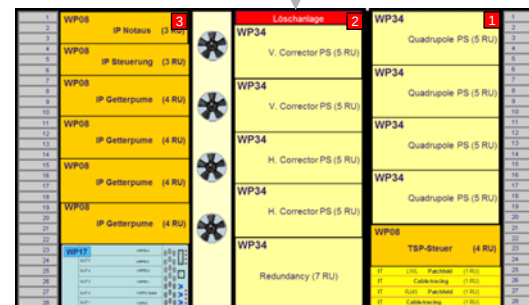
022

1181,55 m - 1233,55 m (L3)

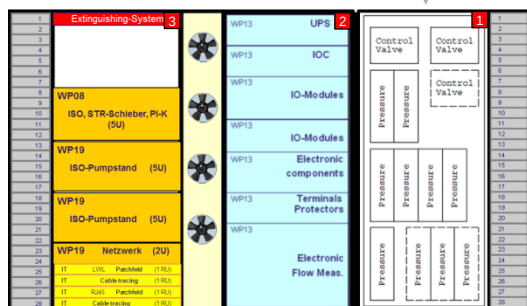


LLRF II at 1198,456 m
XTL_L3.A20_R37

Elektrant 2
1201,35

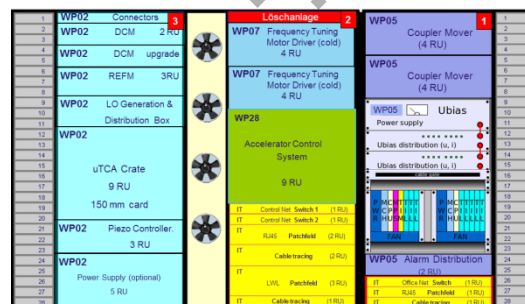


PS at 1205,348 m
XTL_L3.A20_R44

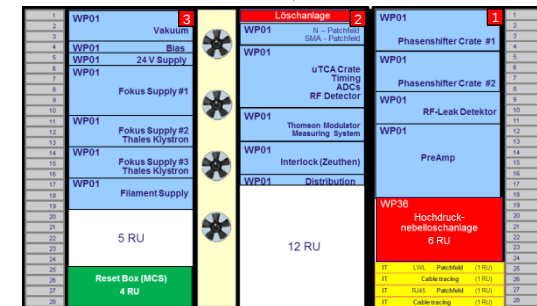


Cryo at 1211,65 m
XTL_L3.A21_R01

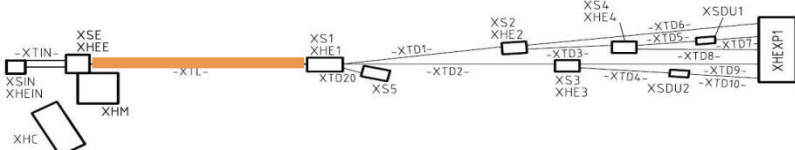
Elektrant 1
1219,5



LLRF I at 1219,319 m
XTL_L3.A21_R08



RF at 1227,119 m
XTL_L3.A21_R15

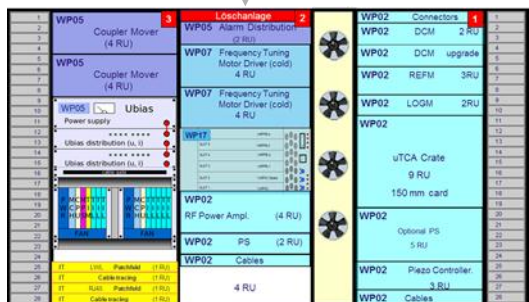


XTL

Room 023

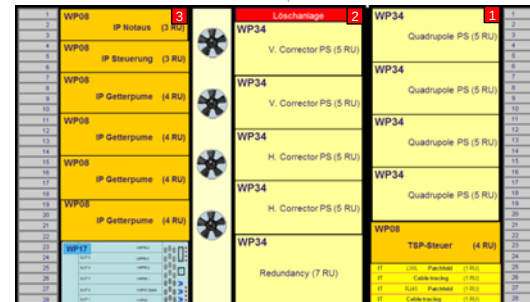
023

1233,55 m - 1285,55 m (L3)

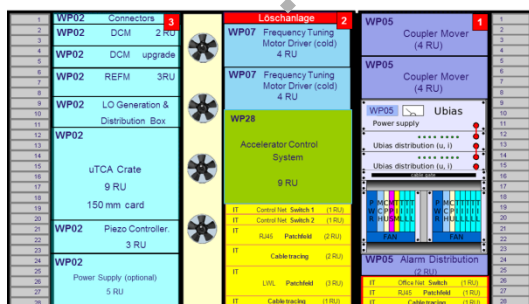


LLRF II at 1249,426 m
XTL_L3.A21_R37

Elektrant 2
1252,35

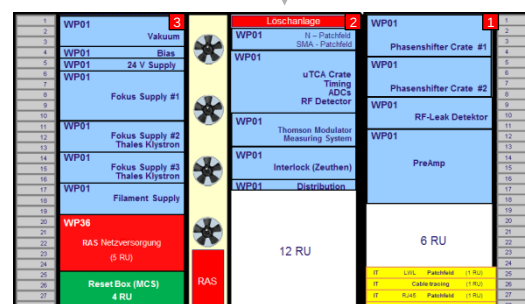


PS at 1256,318 m
XTL_L3.A21_R44

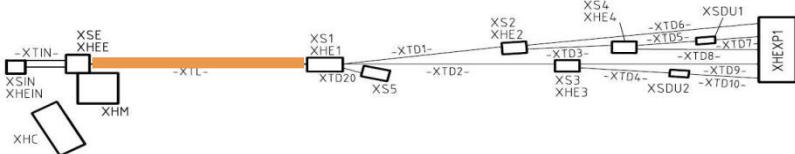


Elektrant 1
1267,45

LLRF I at 1267,279 m
XTL_L3.A22_R08



RF at 1275,079 m
XTL_L3.A22_R15

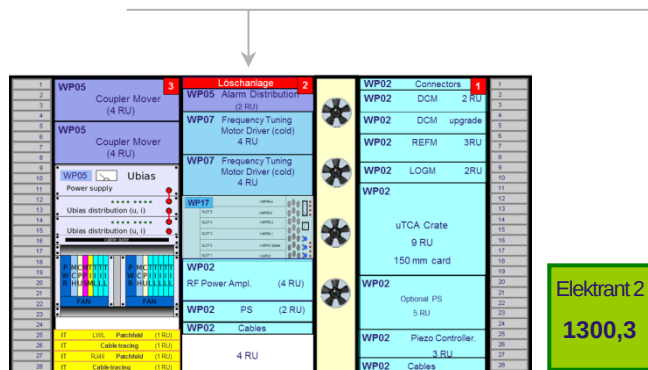


XTL

Room 024

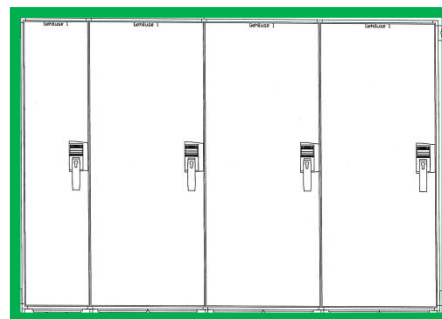
024

1285,55 m - 1337,55 m (L3)

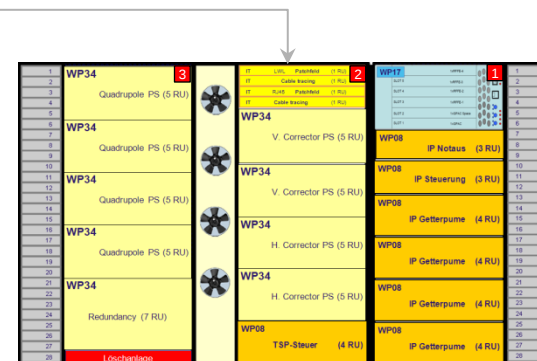


Elektrant 2
1300,3

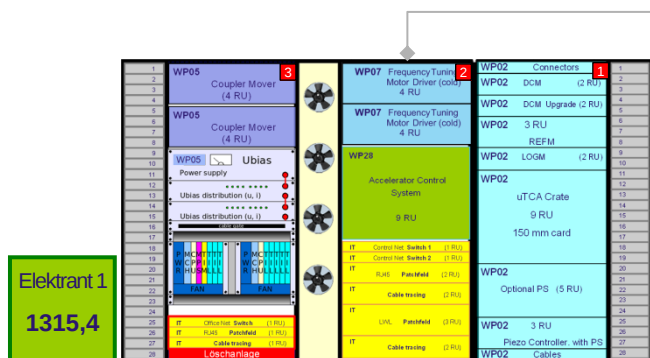
LLRF II at 1297,386 m
XTL_L3.A22_R37



Unterverteilung, 1301.75 m

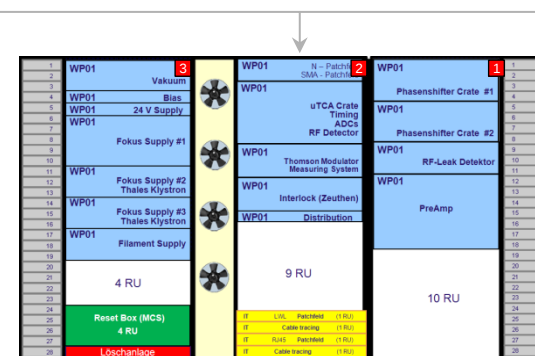


PS at 1304,278 m
XTL_L3.A22_R44

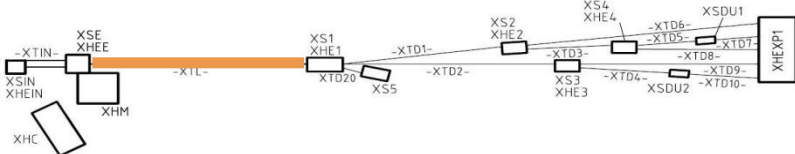


Elektrant 1
1315,4

LLRF I at 1315,249 m
XTL_L3.A23_R08



RF at 1323,049 m
XTL_L3.A23_R15

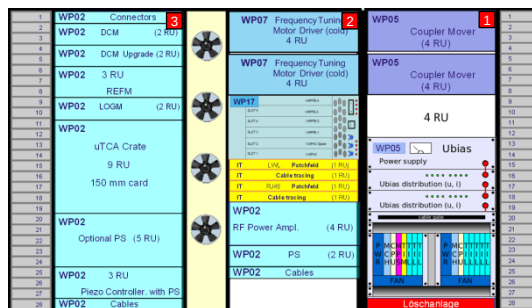


XTL

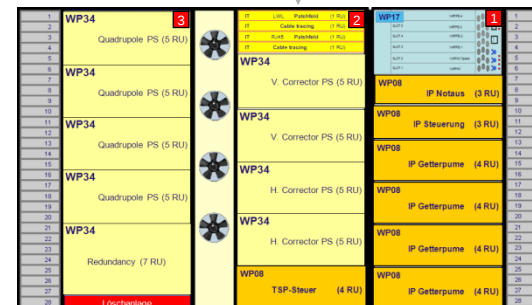
Room 025

025

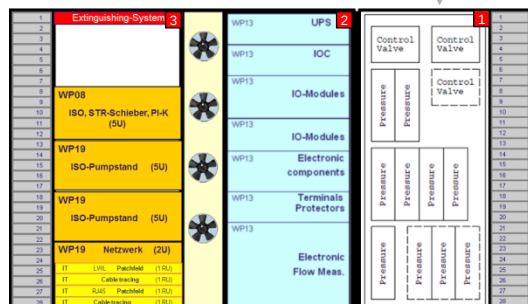
1337,55 m - 1389,55 m (L3)



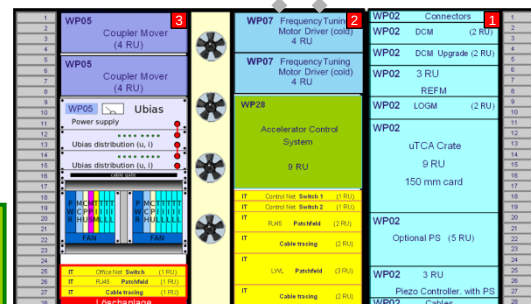
LLRF II at 1345,356 m
XTL_L3.A23_R37



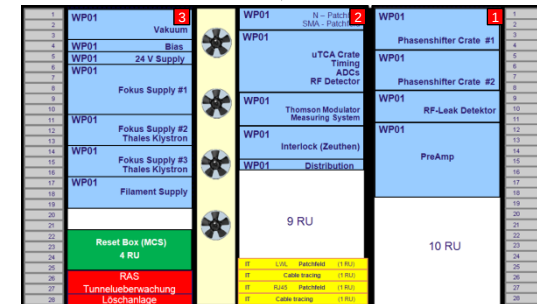
PS at 1352,248 m
XTL_L3.A23_R44



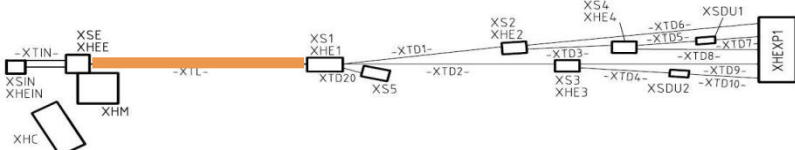
Cryo/Vacuum at 1358,54 m
XTL_L3.A24_R01



LLRF I at 1366,209 m
XTL_L3.A24_R08



RF at 1374,009 m
XTL_L3.A24_R15

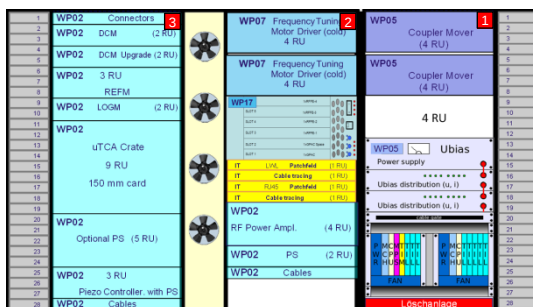


XTL

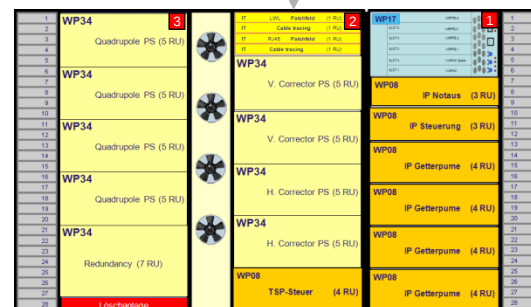
Room 026

026

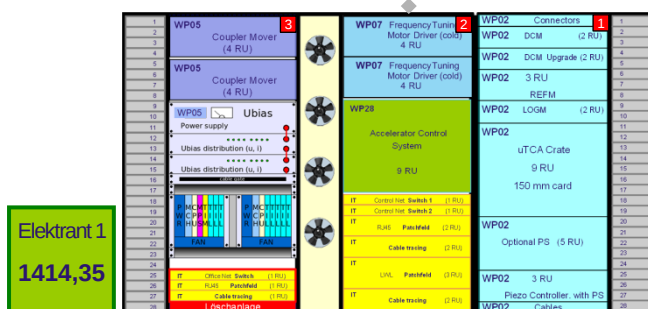
1389,55 m - 1441,55 m (L3)



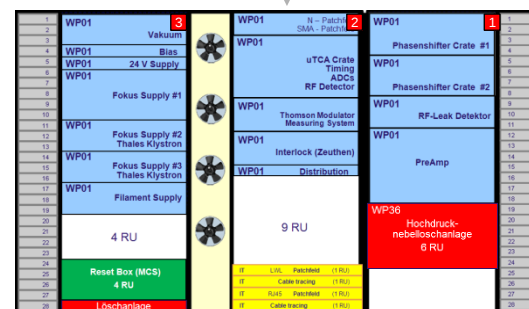
LLRF II at 1396,316 m
XTL_L3.A24_R37



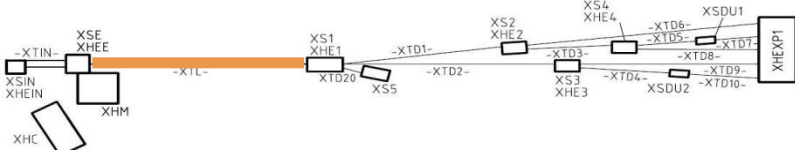
PS at 1403,208 m
XTL_L3.A24_R44



LLRF I at 1414,179 m
XTL_L3.A25_R08



RF at 1421,979 m
XTL_L3.A25_R15

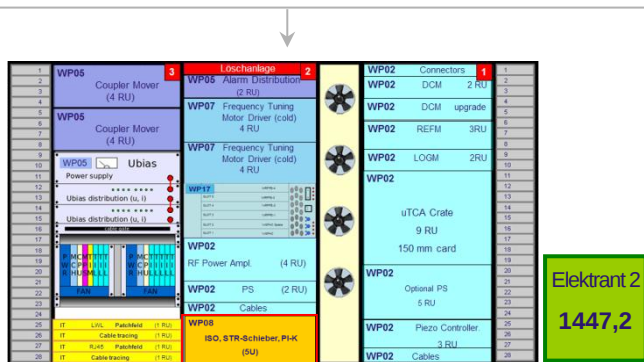


XTL

Room 027

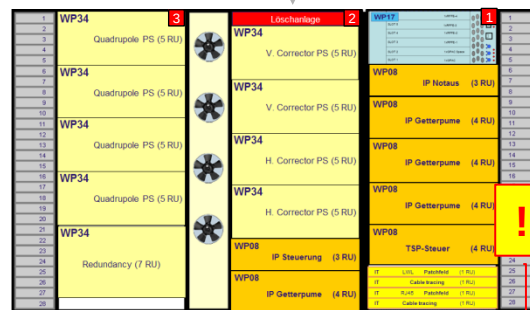
027

1441,55 m - 1493,55 m (L3)

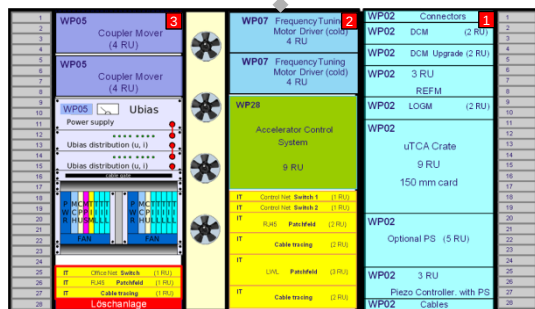


Elektrant 2
1447,2

LLRF II at 1444,286 m
XTL_L3.A25_R37

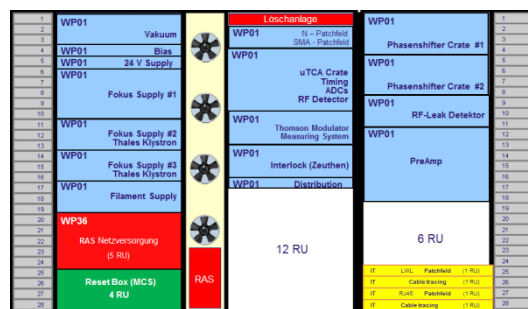


PS at 1451,178 m
XTL_L3.A25_R44

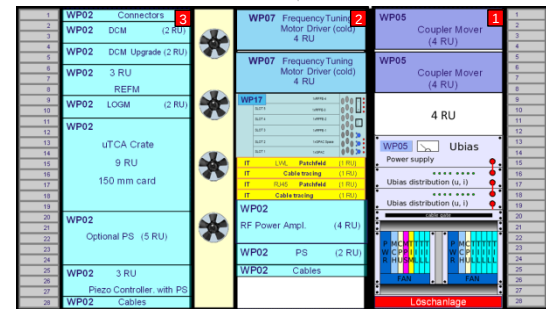


Elektrant 1
1462,3

LLRF I at 1462,149 m
XTL_L3.A26_R08

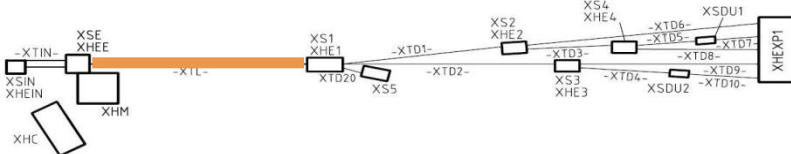


RF at 1469,949 m
XTL_L3.A26_R15



Elektrant 2
1495,15

LLRF II at 1492,256 m
XTL_L3.A26_R37

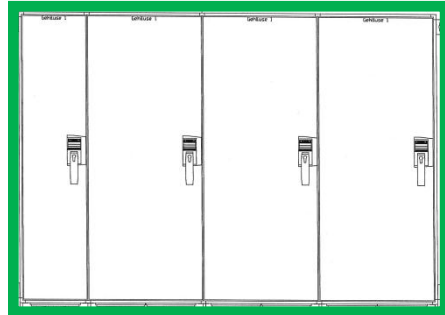


XTL

Room 028

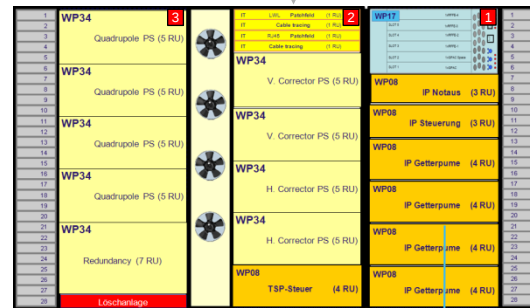
028

1493,55 m - 1545,55 m (L3)

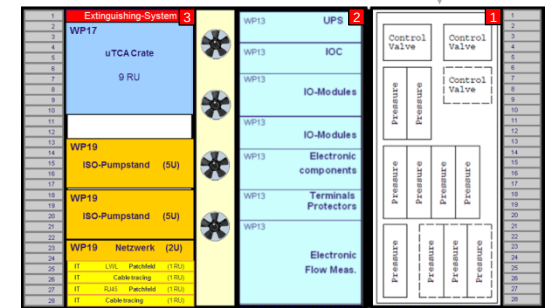


Elektrant 2
1495,15

Unterverteilung, 1496.62 m

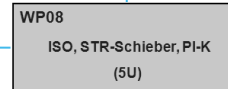


PS at 1499,15 m
XTL_L3.A26_R44

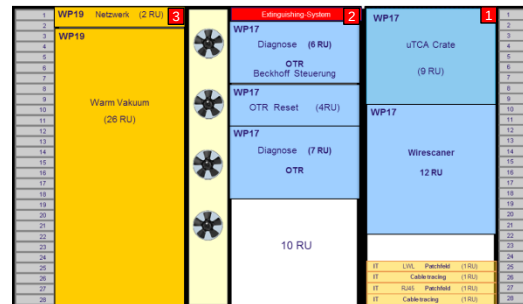


Cryo/Vacuum at 1505,84 m
XTL_L3.A27_R01

Verschoben in XTL_L3.A26_R15 bei 1469 m

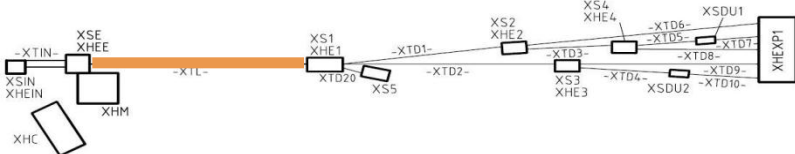


This cabinet was previously as double-rack at 1560 m



Diagnose at 1523 m
XTL_L3.A27_R18

Elektrant 2
1530 m

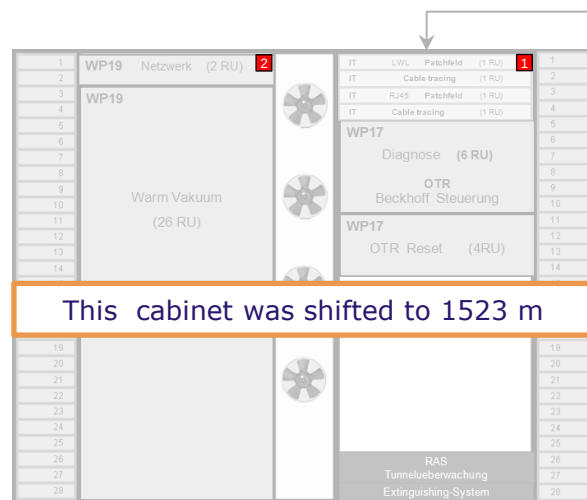


XTL

Room 029

029

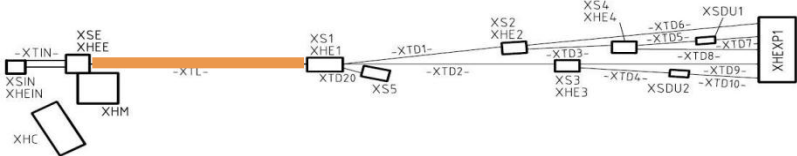
1545,55 m - 1597,55 m (L3)



This cabinet was shifted to 1523 m

Elektrant 2
1563 m

Vacuum at 1560 m
XTL_L3.A28_R10

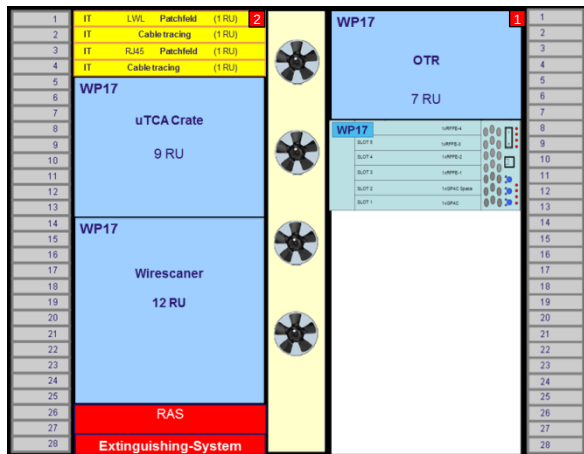


XTL

Room 030

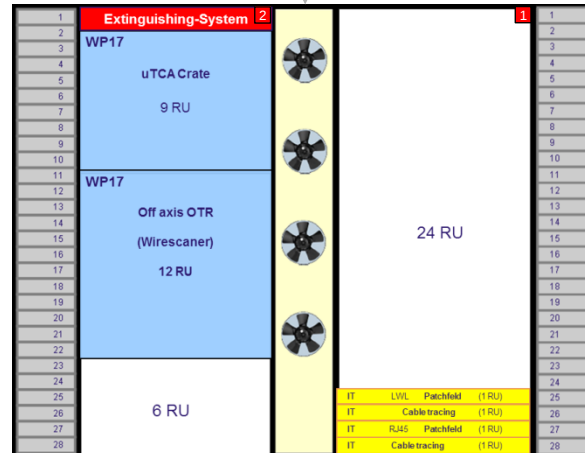
030

1597,55 m - 1649,55 m (L3)



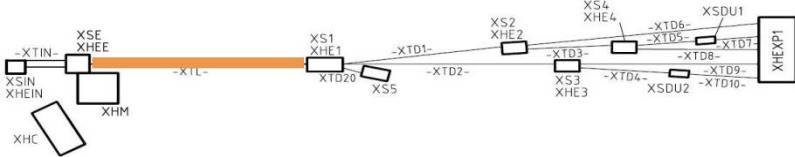
Elektrant 1
1600 m

Diagnostics at 1601 m
XTL_L3.A29_R01



Elektrant 2
1639 m

Diagnostics at 1633 m
XTL_L3.A29_R33

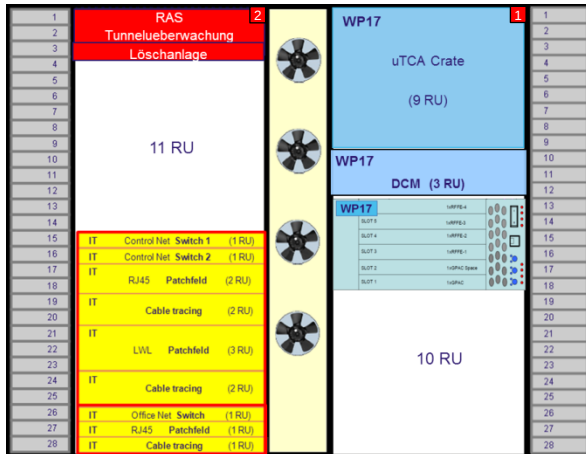


XTL

Room 031

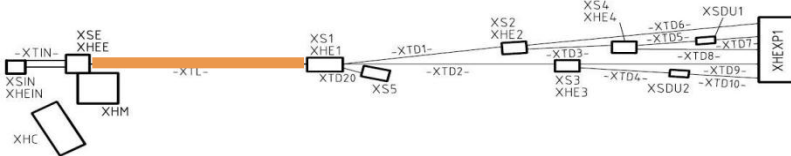
031

1649,55 m – 1678,58 m (L3)



Elektrant 1
1670 m

Diagnostics at 1656 m
XTL_CL.S1_R04

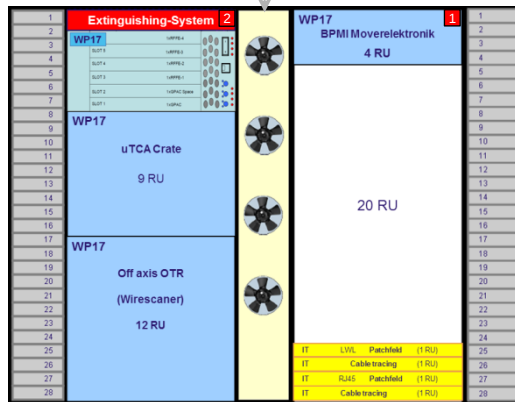


XTL

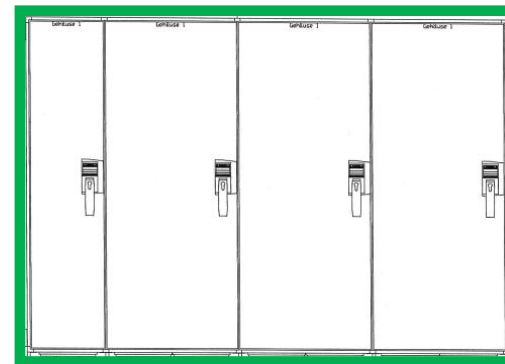
Room 032

032

1678,58 m - 1741,78 m (CL)

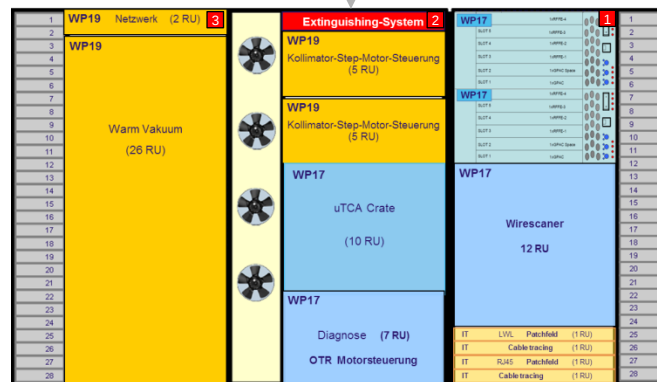


Diagnostics at 1685 m
XTL_CL.S1_R33



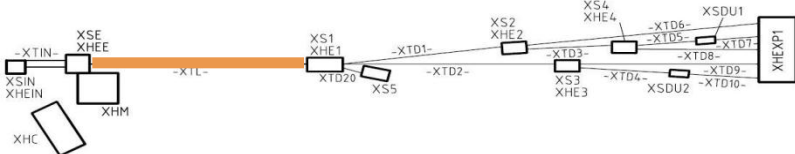
Elektrant 2
1702,5

Unterverteilung, 1700 m



Diagnostics at 1720 m
XTL_CL.S2_R20

Elektrant 1
1730 m

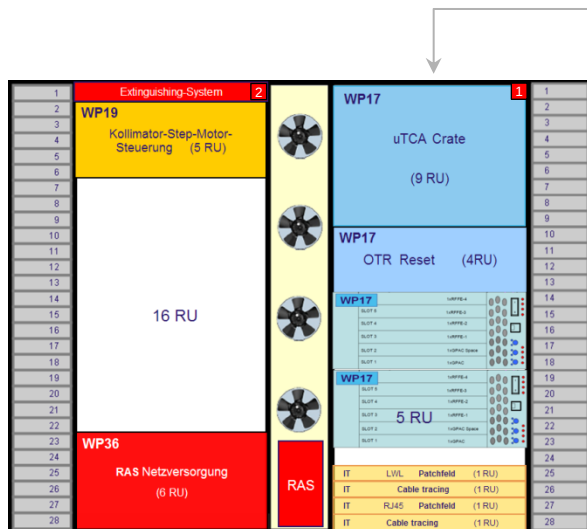


XTL

Room 033

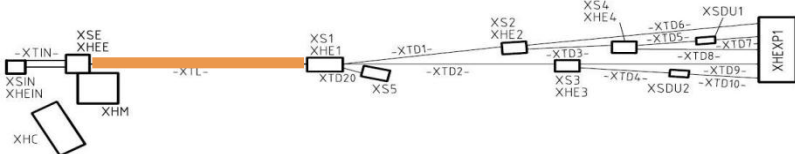
033

1741,78 m – 1785,83 m (CL)



Elektrant 2
1762,6

Diagnostics at 1755 m
XTL_CL.S3_R05

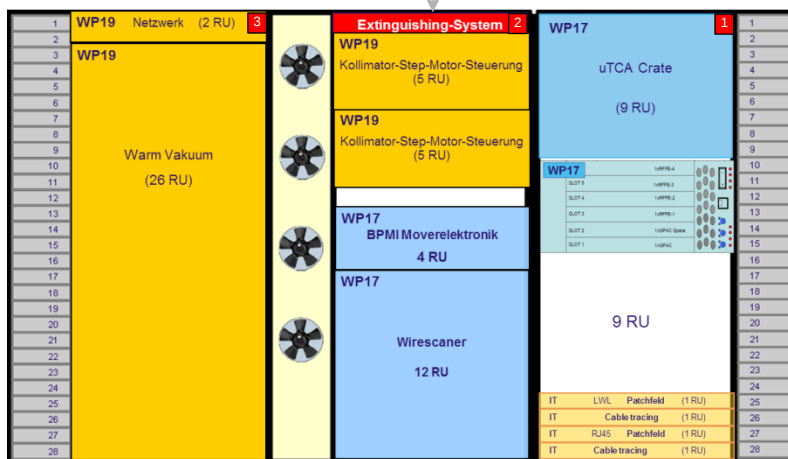


XTL

Room 034

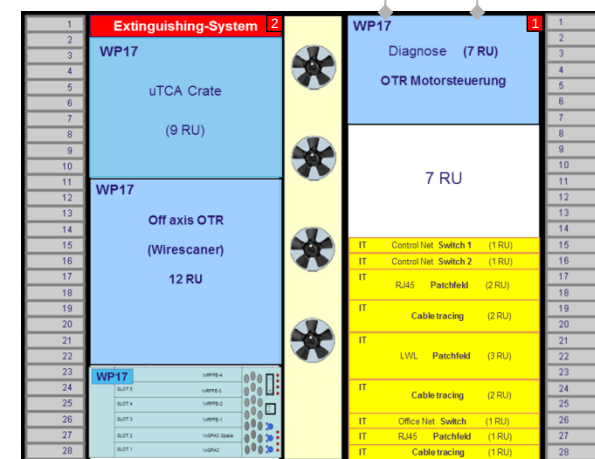
034

1785,83 m – 1849,06 m (CL)



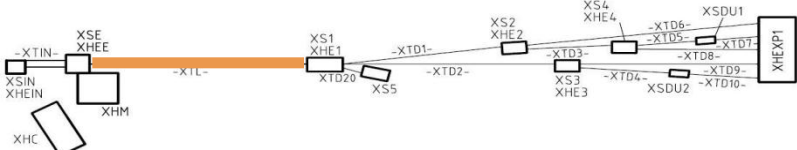
Elektrant 1
1798 m

Diagnostics at 1793 m
XTL_CL.S3_R43



Elektrant 2
1834

Diagnostics at 1828 m
XTL_CL.S4_R28

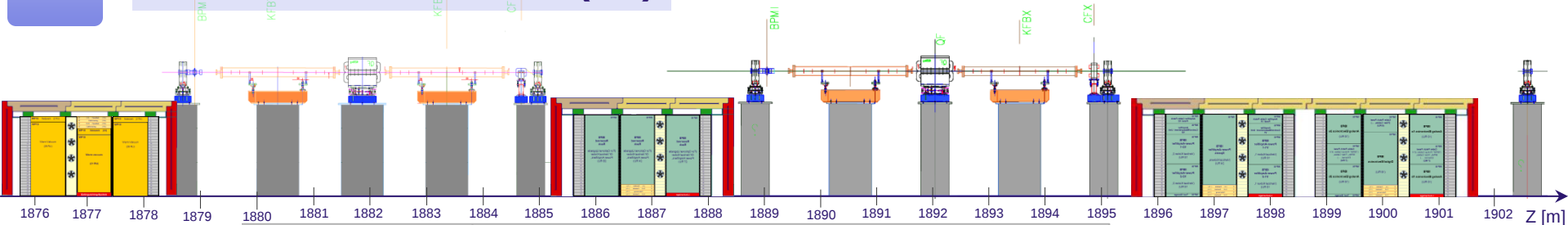


XTL

Room 035

035

1849,06 m – 1901,06 m (CL)



Elektrant 1
1864 m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Diagonals at 1862 m XTL_TL.S1_R08																													

Diagonals at 1862 m
XTL_TL.S1_R08

Elektrant 2
1899

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Vacuum at 1876 m XTL_TL.S1_R22																													

Vacuum at 1876 m
XTL_TL.S1_R22

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IBFB at 1885 m XTL_TL.S1_R31																													

IBFB at 1885 m
XTL_TL.S1_R31

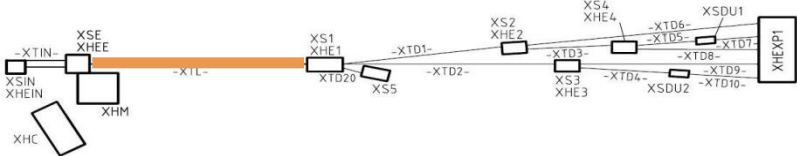
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IBFB at 1895 m XTL_TL.S1_R41																													

IBFB at 1895 m
XTL_TL.S1_R41

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IBFB at 1898 m XTL_TL.S1_R44																													

IBFB at 1898 m
XTL_TL.S1_R44





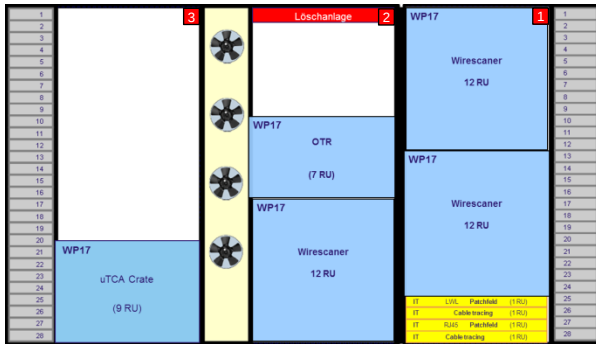
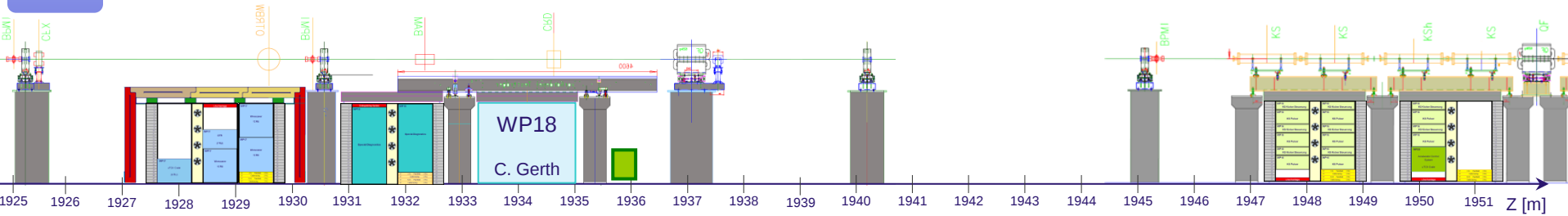
XTL

Room 036

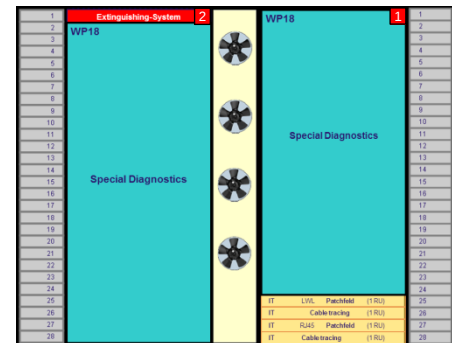
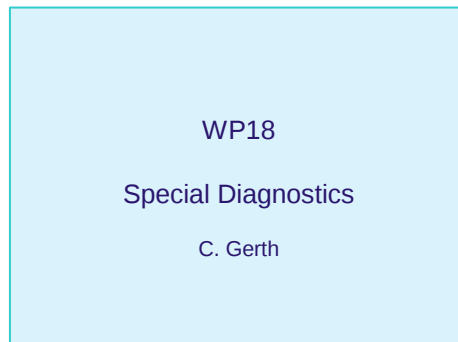
(page 2 of 2)

036

1901,06 m – 1953,06 m (CL)

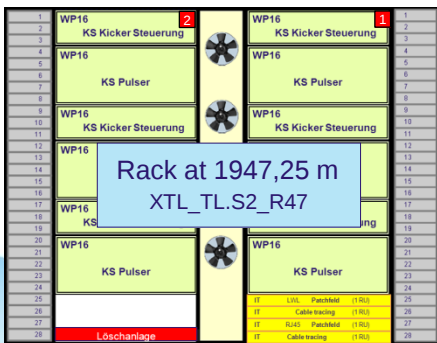


Diagnostics at 1927 m
XTL_TL.S2_R27

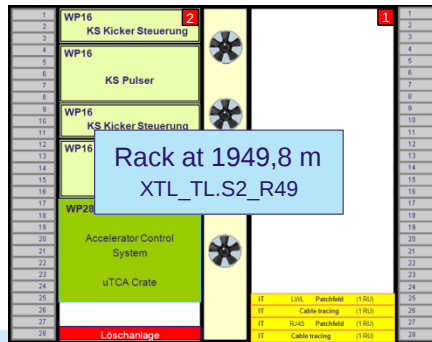


Sp. Diag at 1930,8 m
XTL_TL.S2_R30

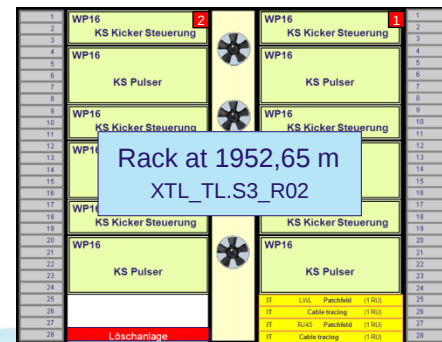
Elektrant 1
1933,6 m



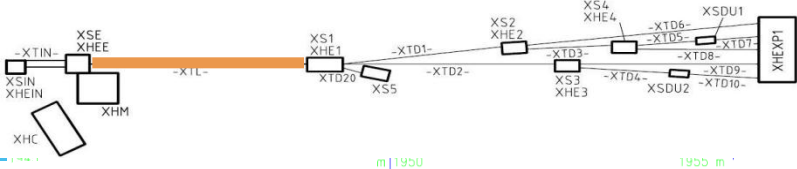
Rack at 1947,25 m
XTL_TL.S2_R47



Rack at 1949,8 m
XTL_TL.S2_R49



Rack at 1952,65 m
XTL_TL.S3_R02



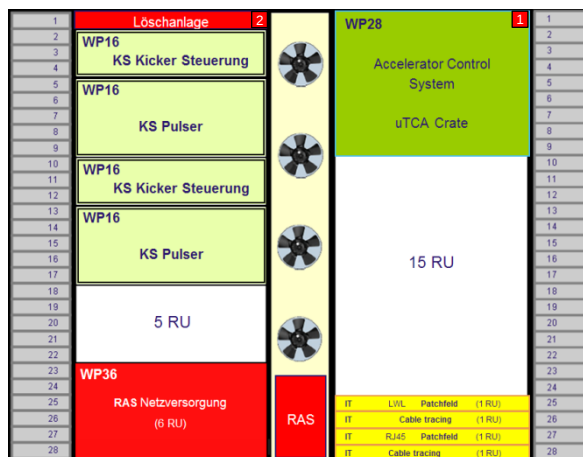
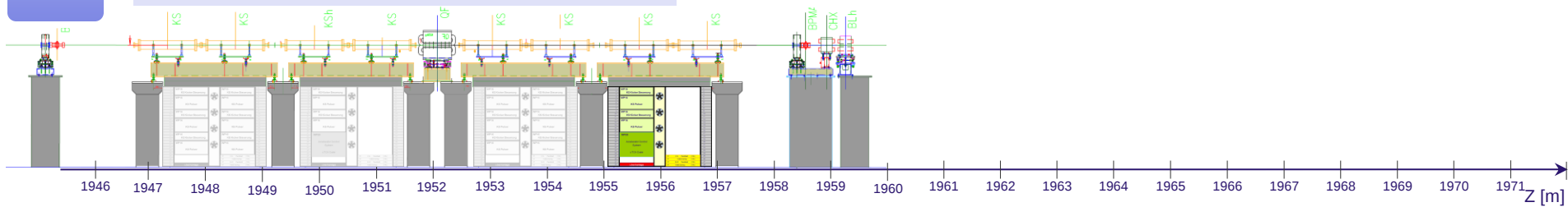
XTL

Room 037

(page 1 of 2)

037

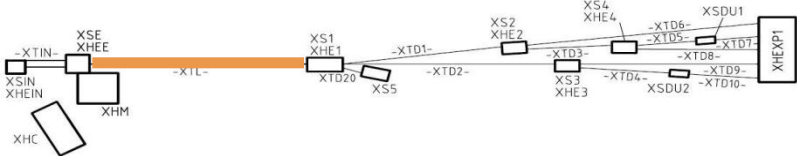
1953,06 m – 2005,06 m (CL)



Cabinet at 1955,1 m
XTL_TL.S3_R05

1953,06 m – 2005,06 m (CL)



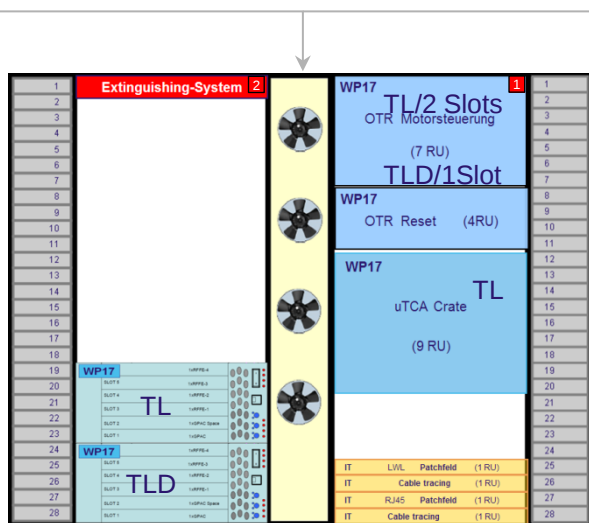
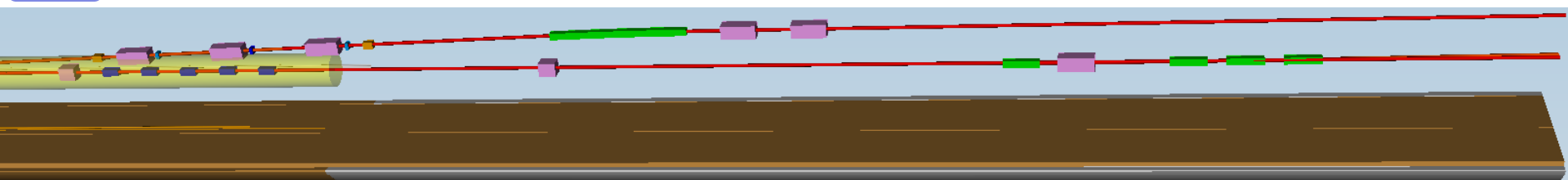


XTL

Room 038

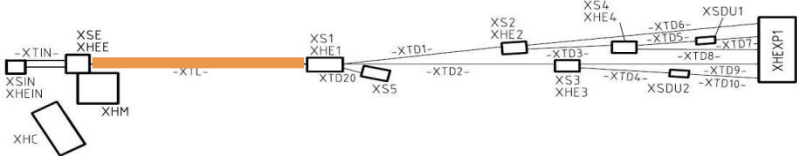
038

2005,06 m – 2039,05 m (TL/TLD)



Elektrant 2
2035 m

Diagnostics at 2018 m
XTL_TL.S4_R18

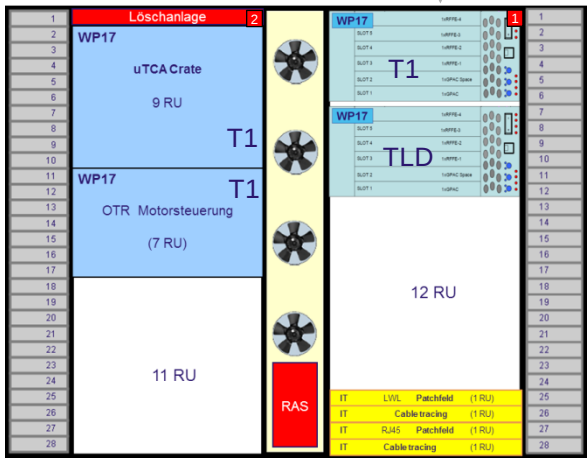
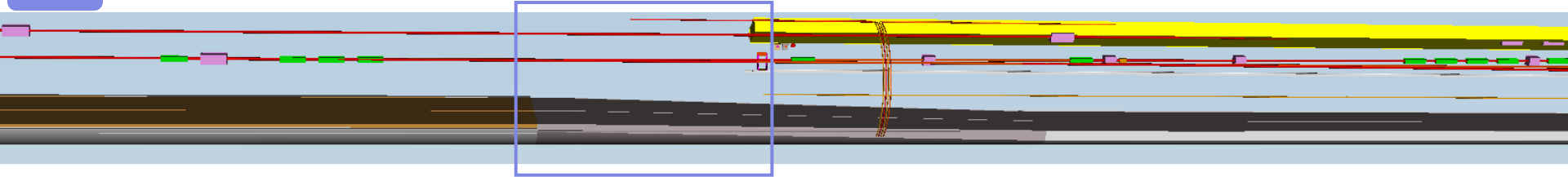


XTL

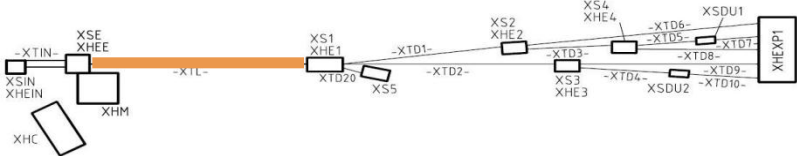
Room 039

039

2039,05 m – 2048,05 m (TL/TLD)



Diagnostics at 2047 m
XTL_TL.S4_R47

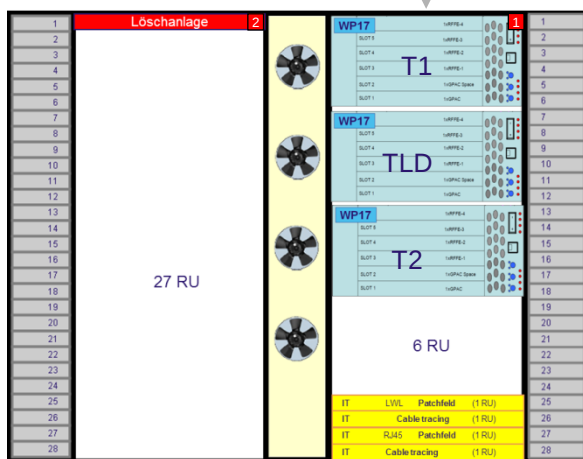
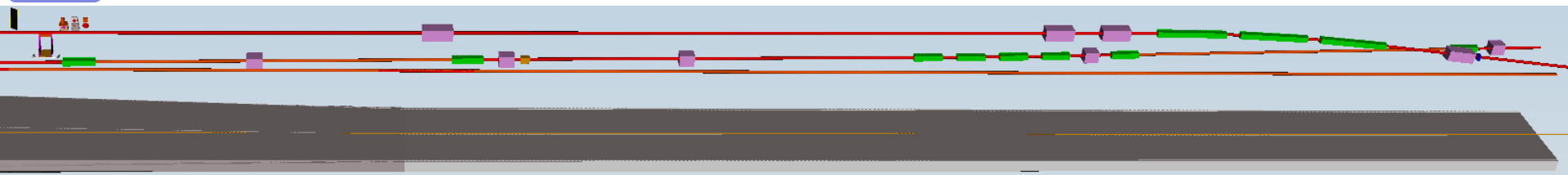


XTL

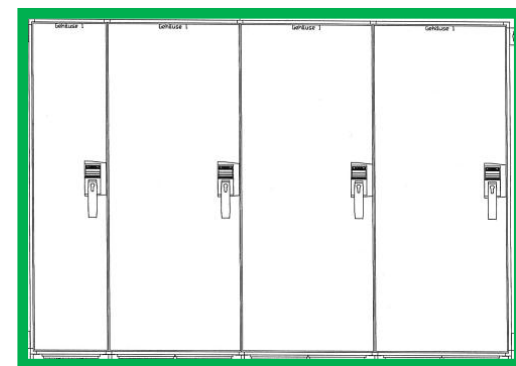
Room 040

040

2048,05 m – 2100,05 m (TL/TLD)



Diagnostics at 2074 m
XTL_TL.S5_R16



Unterverteilung, 2100 m