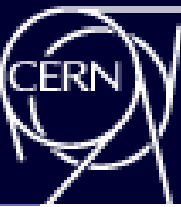




# ELENA Projects

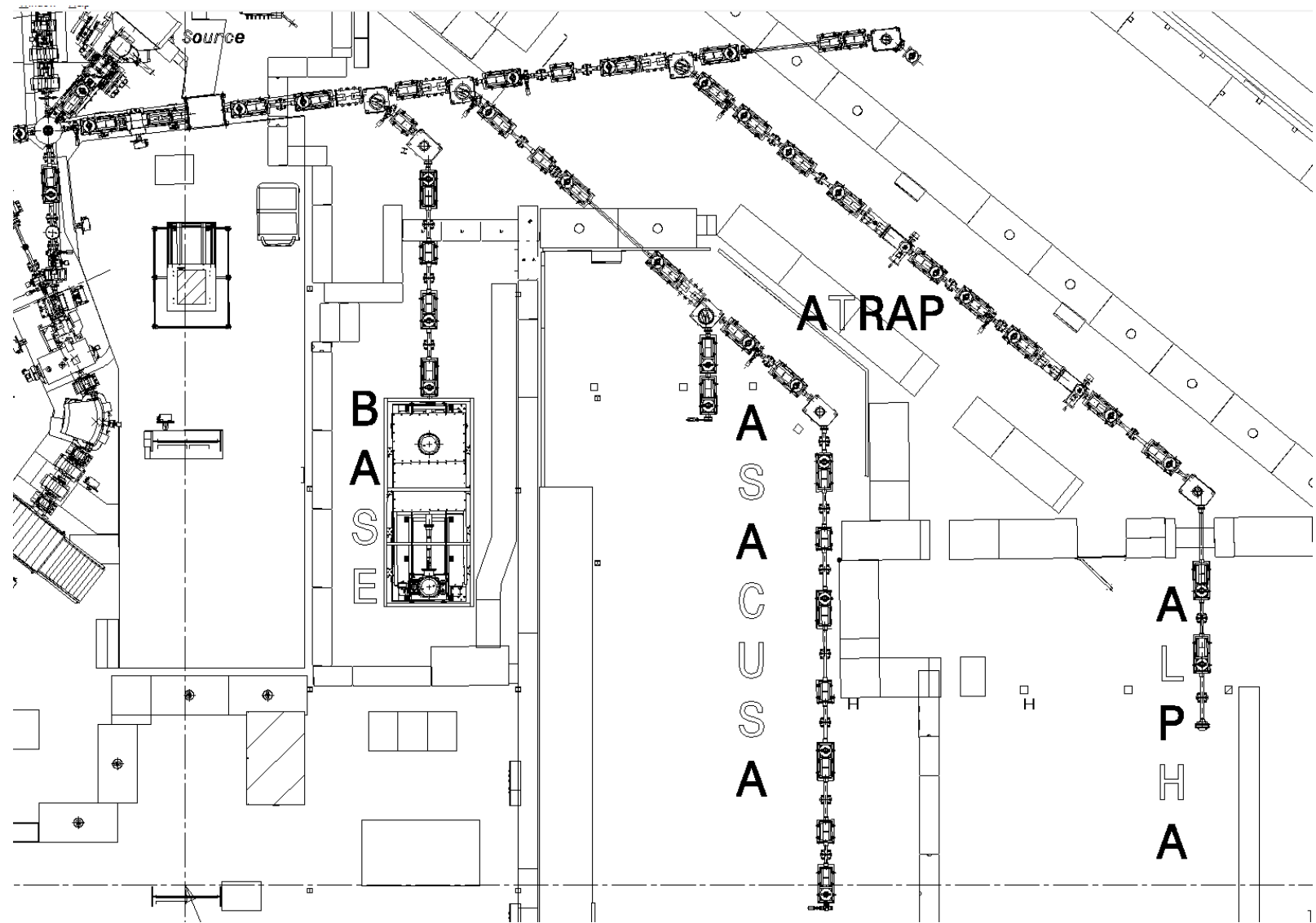


## ELENA transfer lines Installation planning



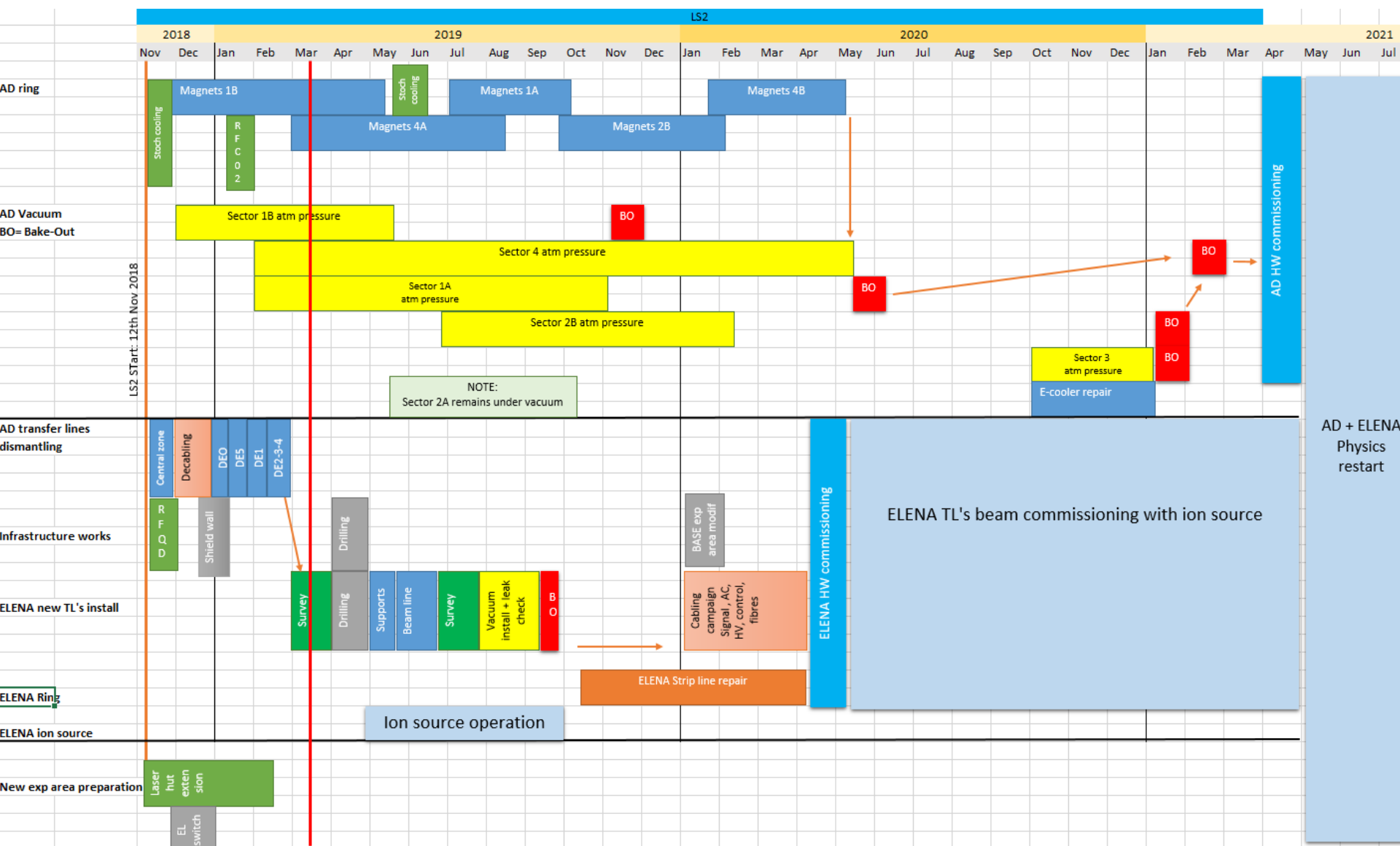
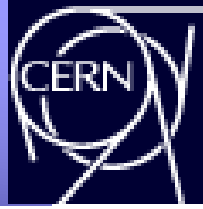
ANTIMATTER  
FACTORY





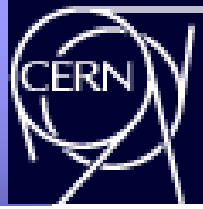


# Master planning





# Master planning



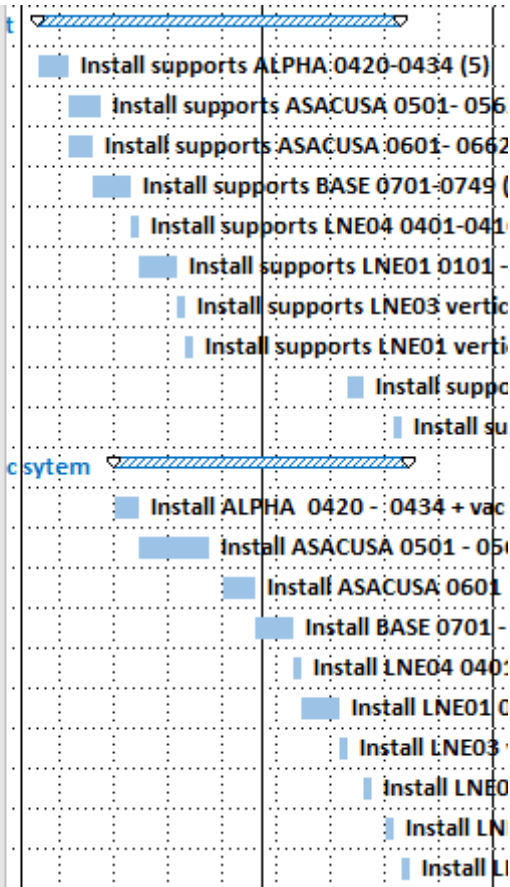
Survey Marking (including new network and holes marking)	EN-SMM	4 wks	Mon 11/03/19	Fri 05/04/19	■ Survey Marking (including new network and holes marking)
Drilling in the shielding block for ASACUSA TL	SMB-CE	2 days	Mon 08/04/19	Tue 09/04/19	■ Drilling in the shielding block for ASACUSA TL
Drilling in the shielding block for AEGIS TL	SMB-CE	2 days	Wed 10/04/19	Thu 11/04/19	■ Drilling in the shielding block for AEGIS TL
Drilling for the mechanical support	EN-MME	2 wks	Fri 12/04/19	Thu 25/04/19	■ Drilling for the mechanical support
Installation of the new mechanical support	EN-MME	3 wks	Fri 26/04/19	Thu 16/05/19	■ Installation of the new mechanical support
Cabling work can technically start	EN-EL	0 days	Thu 16/05/19	Thu 16/05/19	■ Cabling work can technically start ◆ 16/05
Installation of electrostatics element + SEM + vac sytem	TE-VSC,TE-ABT	5 wks	Fri 17/05/19	Thu 20/06/19	■ Installation of electrostatic
Alignment of electrostatic elements (62) by the survey (3/i)	EN-SMM	21 days	Fri 21/06/19	Fri 19/07/19	■ Alignment
Lissage	EN-SMM	3 wks	Wed 16/10/19	Tue 05/11/19	
Measurement of SEM (31) positions	EN-SMM	1 wk	Wed 06/11/19	Tue 12/11/19	
Electrical connection of electrostatic elements	TE-ABT	4 wks	Mon 06/04/20	Fri 01/05/20	
Electrical connection of SEM	BE-BI	2 wks	Mon 06/04/20	Fri 17/04/20	
Vacuum work		62 days	Mon 22/07/19	Tue 15/10/19	■ Vacuum work



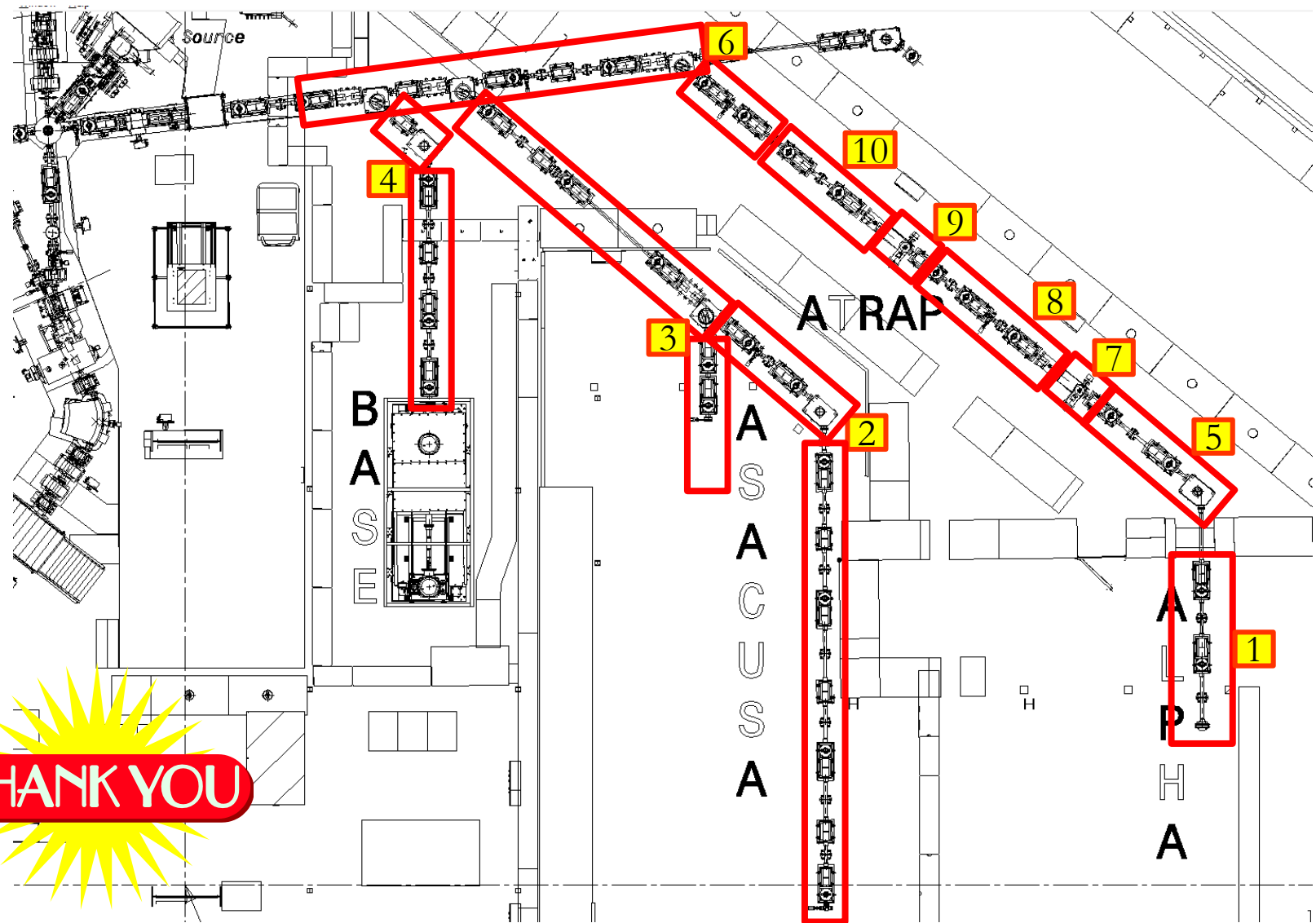
# Detailed planning



Task	Responsible	Duration	Start	End
<b>Installation of the new mechanical support</b>	<b>EN-MME</b>	<b>33 days</b>	<b>Fri 03/05/19</b>	<b>Tue 18/06/19</b>
Install supports ALPHA 0420-0434 (5)	EN-MME	2 days	Fri 03/05/19	Mon 06/05/19
Install supports ASACUSA 0501- 0565 (19)	EN-MME	4 days	Tue 07/05/19	Fri 10/05/19
Install supports ASACUSA 0601- 0662 (11)	EN-MME	3 days	Tue 07/05/19	Thu 09/05/19
Install supports BASE 0701-0749 (11)	EN-MME	3 days	Fri 10/05/19	Tue 14/05/19
Install supports LNE04 0401-0416 (4)	EN-MME	1 day	Wed 15/05/19	Wed 15/05/19
Install supports LNE01 0101 - 0145 (11)	EN-MME	3 days	Thu 16/05/19	Mon 20/05/19
Install supports LNE03 vertical 0332 - 0339	EN-MME	1 day	Tue 21/05/19	Tue 21/05/19
Install supports LNE01 vertical 0175 - 0182	EN-MME	1 day	Wed 22/05/19	Wed 22/05/19
Install supports LNE03 0301 - 0316 (5)	EN-MME	2 days	Wed 12/06/19	Thu 13/06/19
Install supports LNE01 0151-0159 (4)	EN-MME	1 day	Tue 18/06/19	Tue 18/06/19
<b>Installation of electrostatics element + SEM + vac sytem</b>	<b>TE-VSC,TE-ABT</b>	<b>28 days</b>	<b>Mon 13/05/19</b>	<b>Wed 19/06/19</b>
Install ALPHA 0420 - 0434 + vac	TE-VSC,TE-ABT	3 days	Mon 13/05/19	Wed 15/05/19
Install ASACUSA 0501 - 0565 + vac	TE-VSC,TE-ABT	7 days	Thu 16/05/19	Fri 24/05/19
Install ASACUSA 0601 - 0662 + vac	TE-VSC,TE-ABT	4 days	Mon 27/05/19	Thu 30/05/19
Install BASE 0701 - 0749 + vac	TE-VSC,TE-ABT	3 days	Fri 31/05/19	Tue 04/06/19
Install LNE04 0401 - 0416 + vac	TE-VSC,TE-ABT	1 day	Wed 05/06/19	Wed 05/06/19
Install LNE01 0101 - 0145 + vac	TE-VSC,TE-ABT	3 days	Thu 06/06/19	Mon 10/06/19
Install LNE03 vertical 0332 0339 - ZDSV 0327 + vac	TE-VSC,TE-ABT	1 day	Tue 11/06/19	Tue 11/06/19
Install LNE03 0301 - 0316 + vac	TE-VSC,TE-ABT	1 day	Fri 14/06/19	Fri 14/06/19
Install LNE01 vertical 0175 0182- ZDSV 0170 + vac	TE-VSC,TE-ABT	1 day	Mon 17/06/19	Mon 17/06/19
Install LNE01 0151 - 0159 + vac	TE-VSC,TE-ABT	1 day	Wed 19/06/19	Wed 19/06/19



# Installation order



**THANK YOU**