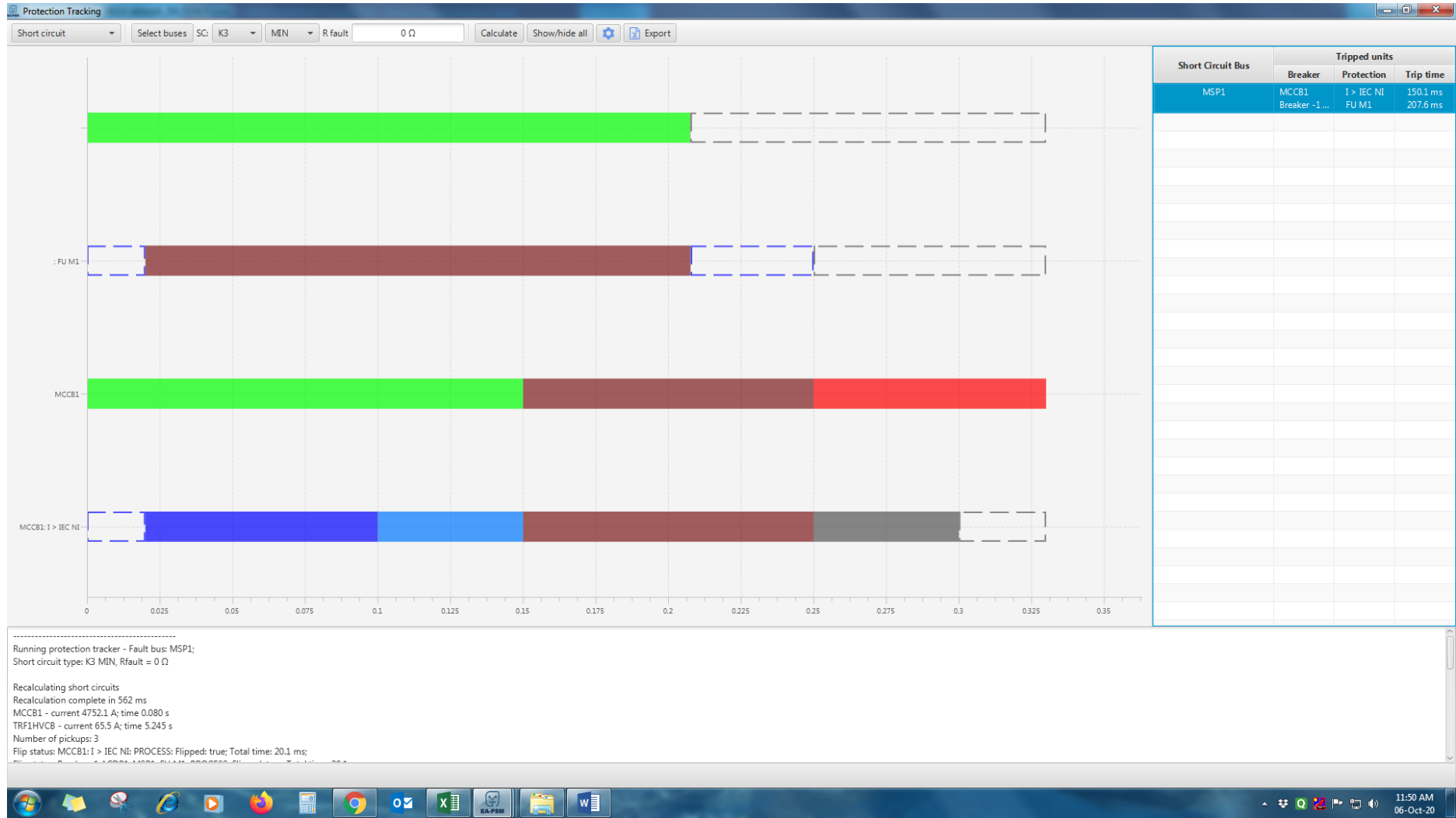
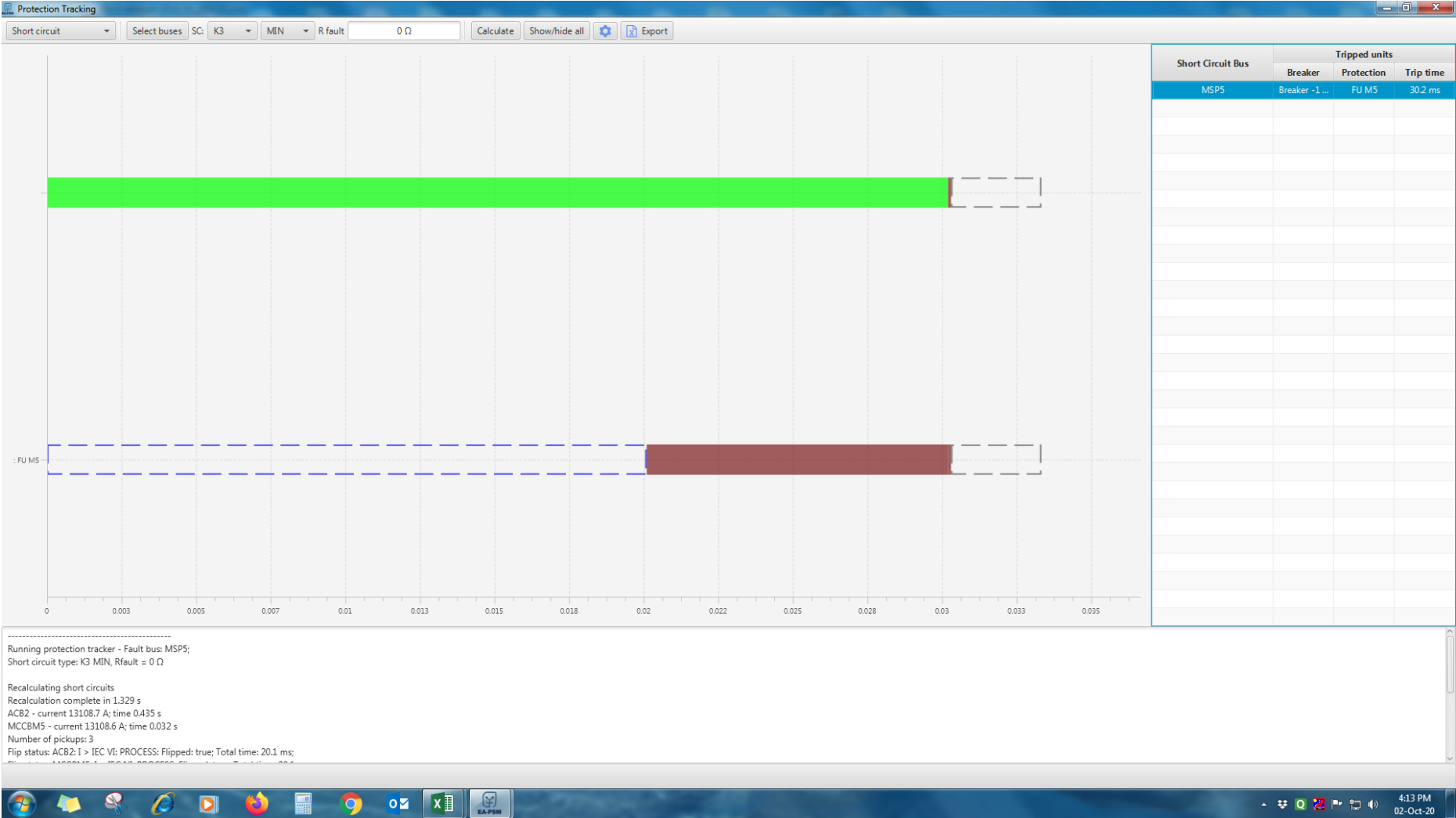


PROTECTION COORDINATION FOR MSP1



Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI
Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION	
		Rev. R00	Date of issue 2020-06-01

PROTECTION COORDINATION FOR MSP5

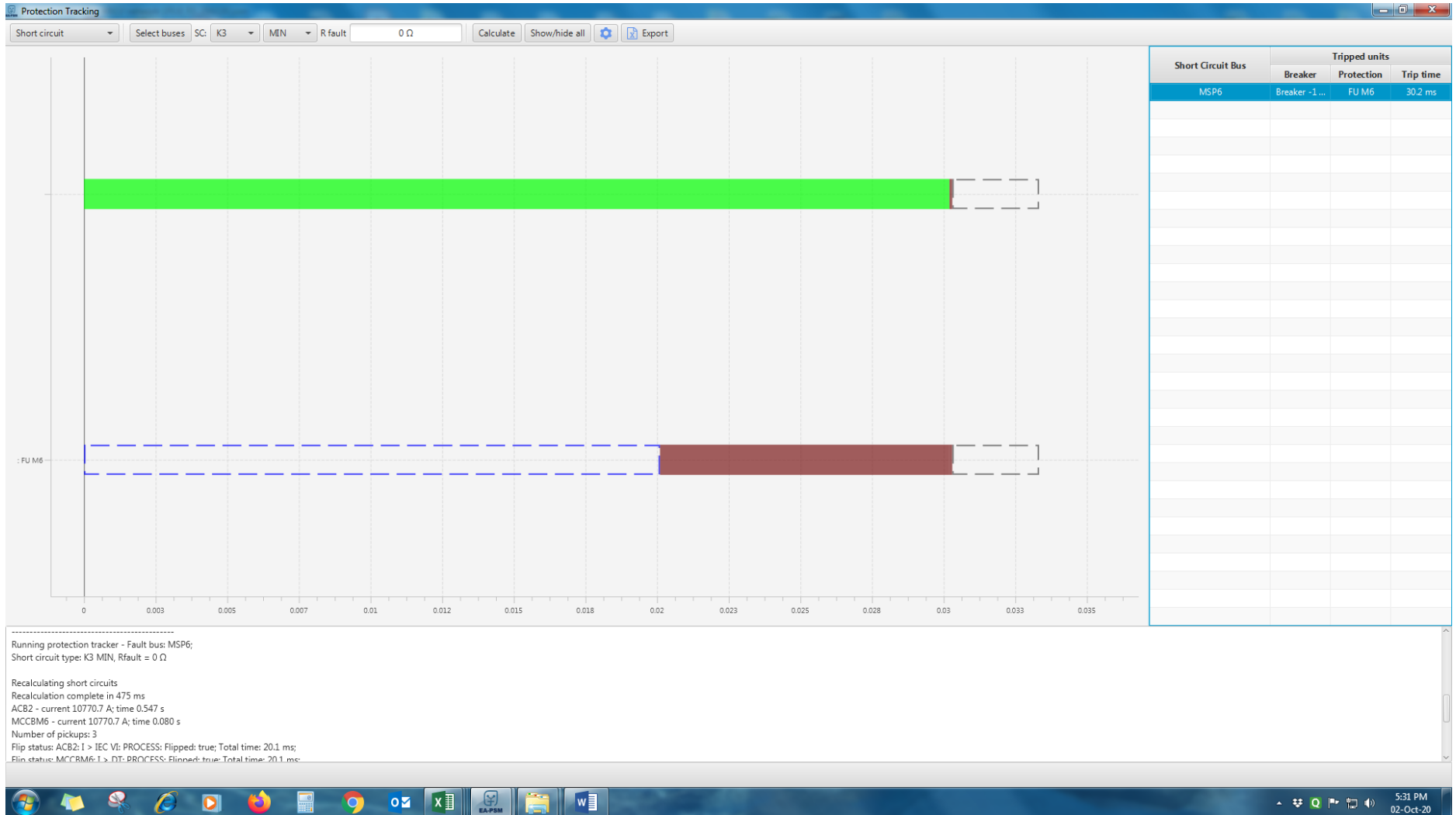


Running protection tracker - Fault bus: MSP5;
 Short circuit type: K3 MIN, Rfault = 0 Ω

Recalculating short circuits
 Recalculation complete in 1.329 s
 ACB2 - current 13108.7 A; time 0.435 s
 MCCBMS - current 13108.6 A; time 0.032 s
 Number of pickups: 3
 Flip status: ACB2: I > IEC VI: PROCESS: Flipped: true; Total time: 20.1 ms;

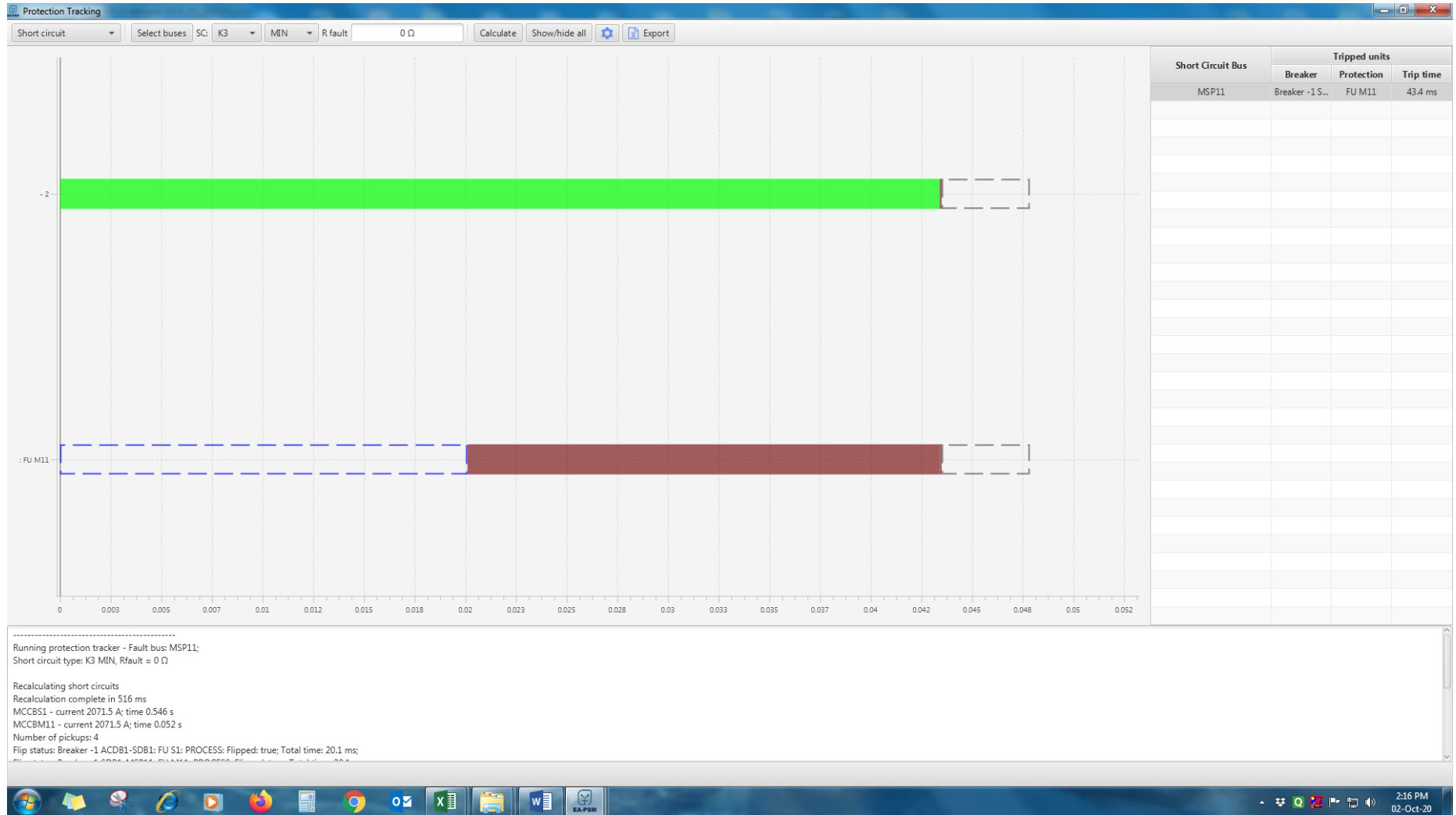
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI
	Document type MV/LV NETWORK STUDY	Document status	
	Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION		
	Rev. R00	Date of issue 2020-06-01	Lang.


PROTECTION COORDINATION FOR MSP6



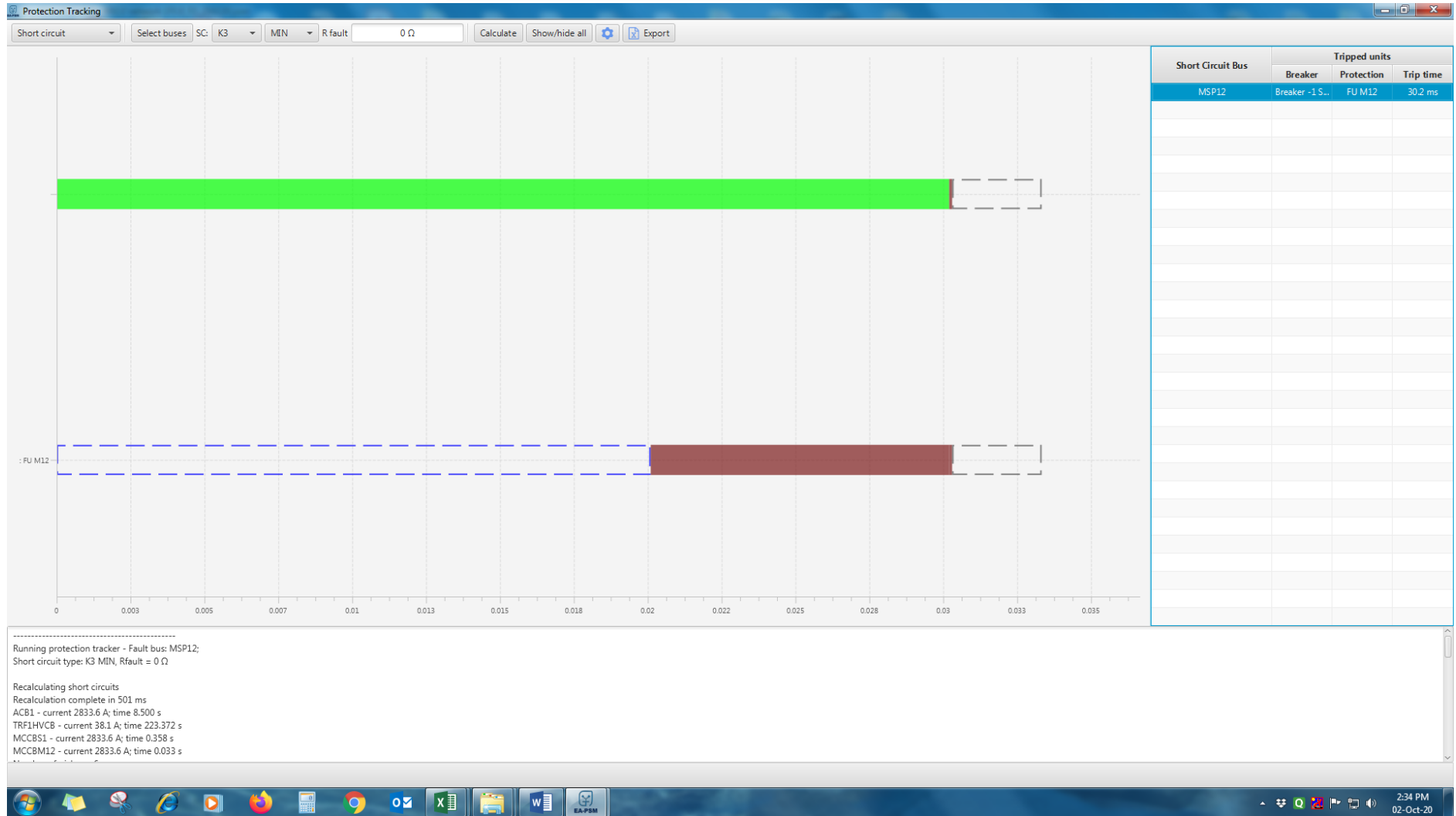
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI
Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION	
		Rev. R00	Date of issue 2020-06-01

PROTECTION COORDINATION FOR MSP11



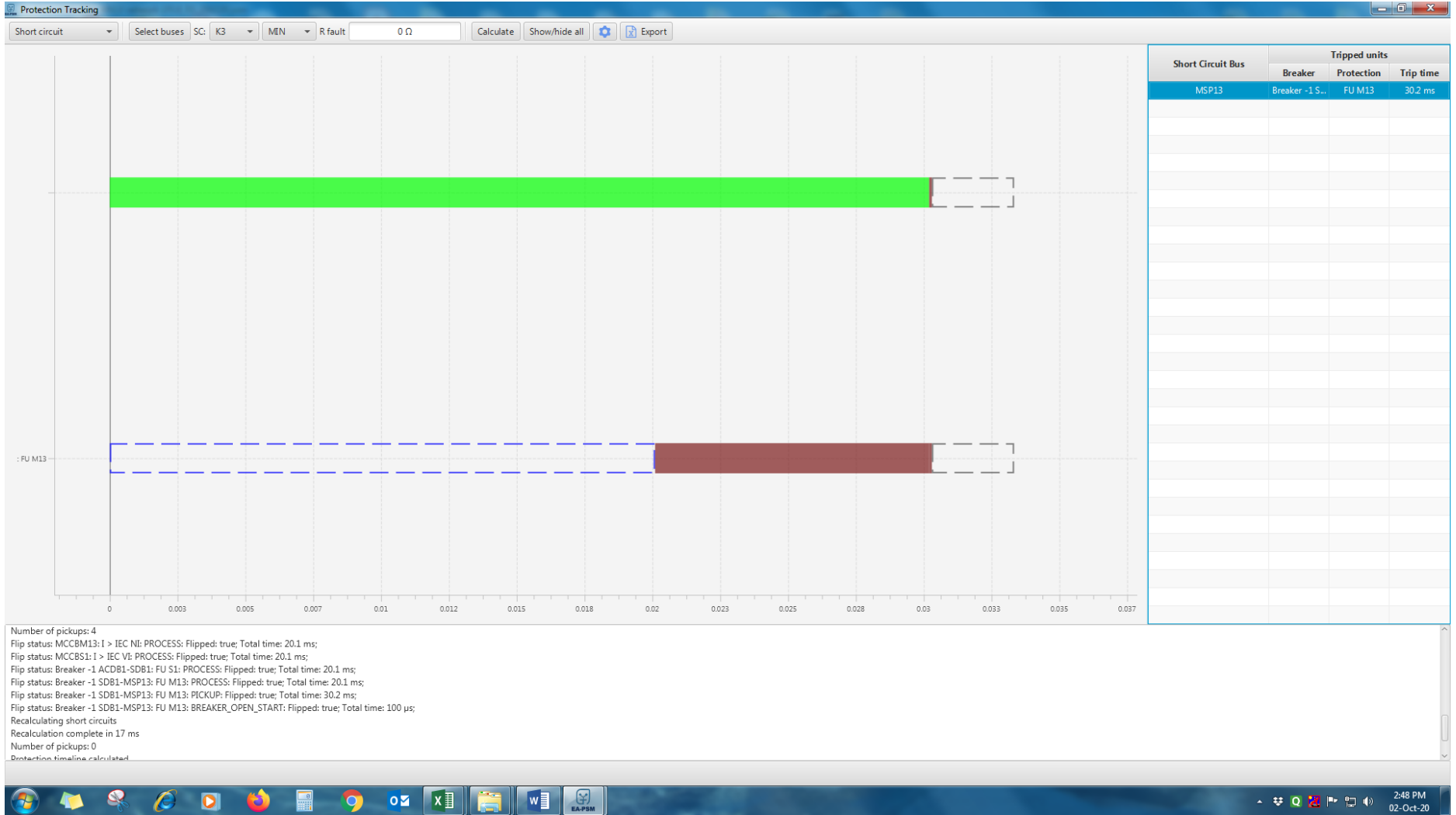
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI
 Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION	
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PROTECTION COORDINATION FOR MSP12



Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PM
Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION	
		Rev. R00	Date of issue 2020-06-01

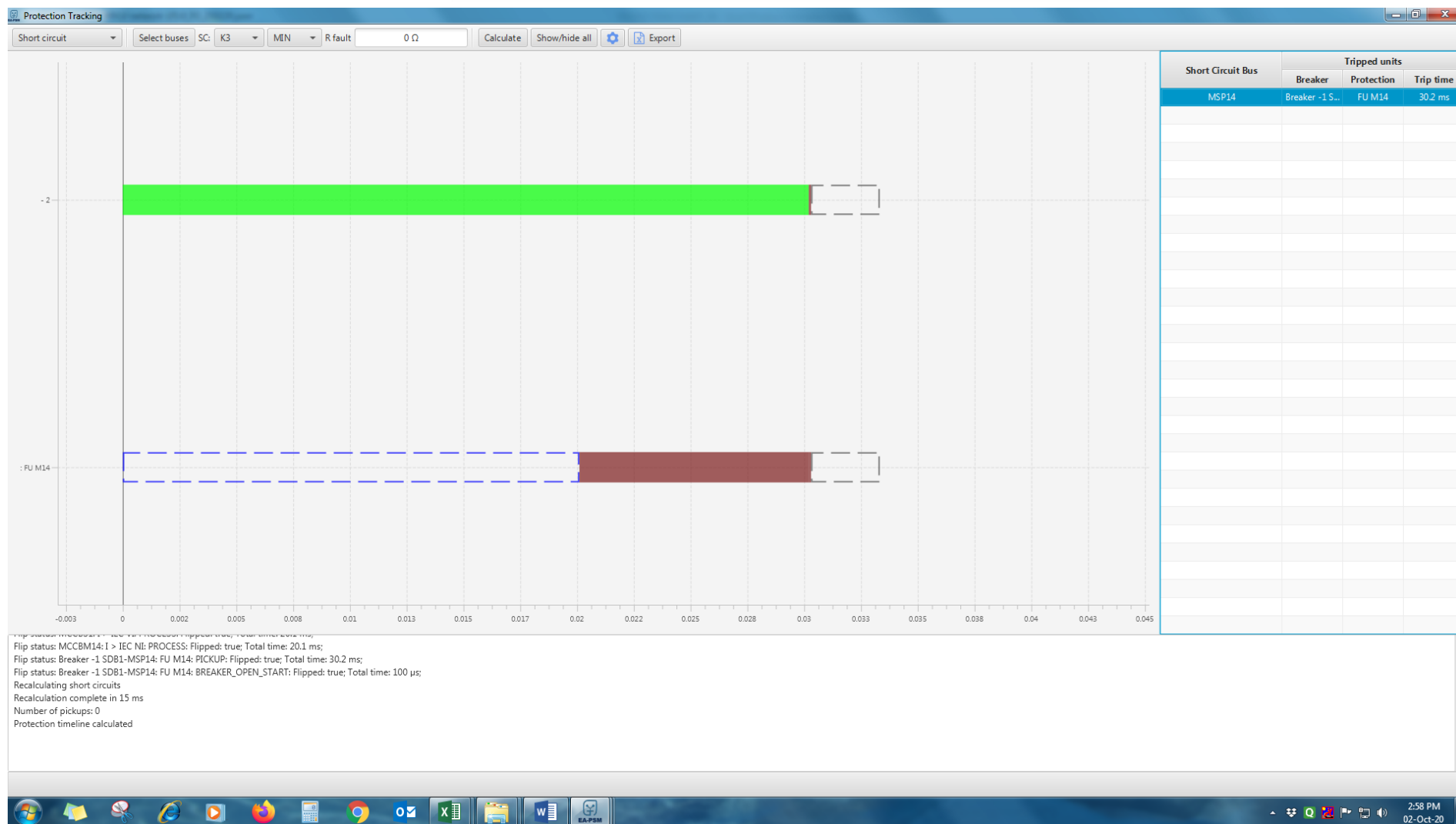
PROTECTION COORDINATION FOR MSP13




Number of pickups: 4
 Flip status: MCCBM13: I > IEC NI: PROCESS: Flipped: true; Total time: 20.1 ms;
 Flip status: MCCBS1: I > IEC VE: PROCESS: Flipped: true; Total time: 20.1 ms;
 Flip status: Breaker -1 ACDB1-SDB1: FU S1: PROCESS: Flipped: true; Total time: 20.1 ms;
 Flip status: Breaker -1 SDB1-MSP13: FU M13: PROCESS: Flipped: true; Total time: 20.1 ms;
 Flip status: Breaker -1 SDB1-MSP13: FU M13: PICKUP: Flipped: true; Total time: 30.2 ms;
 Flip status: Breaker -1 SDB1-MSP13: FU M13: BREAKER_OPEN_START: Flipped: true; Total time: 100 μs;
 Recalculating short circuits
 Recalculation complete in 17 ms
 Number of pickups: 0
 Protection timeline calculated.

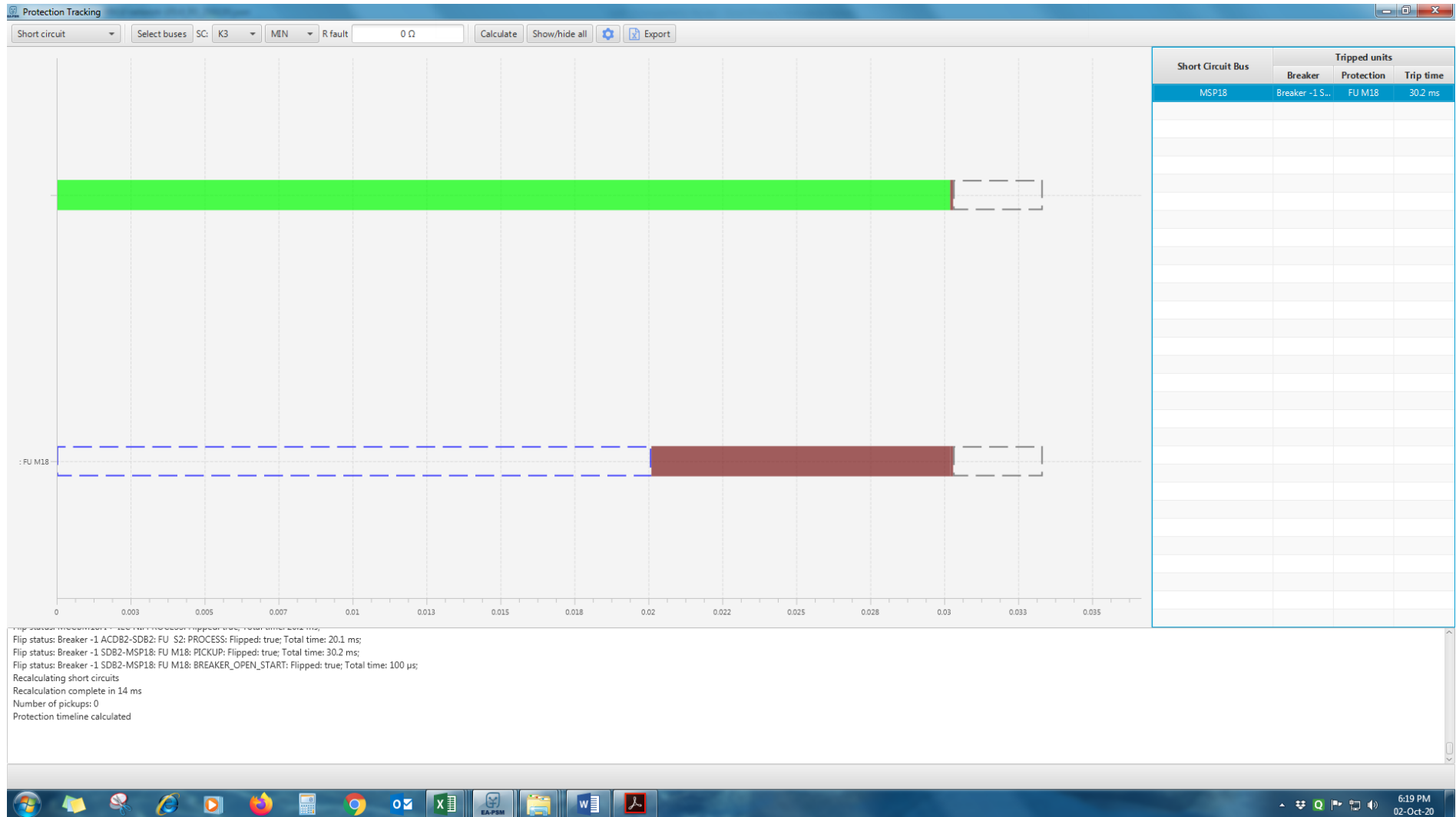
Responsible dept.	SLD NONPLANT AREA RSPL	Created by	KP	Approved by	PM
Persotech Solutions Innovations With Simplicity		Document type		Document status	
		MV/LV NETWORK STUDY			
		Title, Supplementary title			
		STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION			
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PROTECTION COORDINATION FOR MSP14



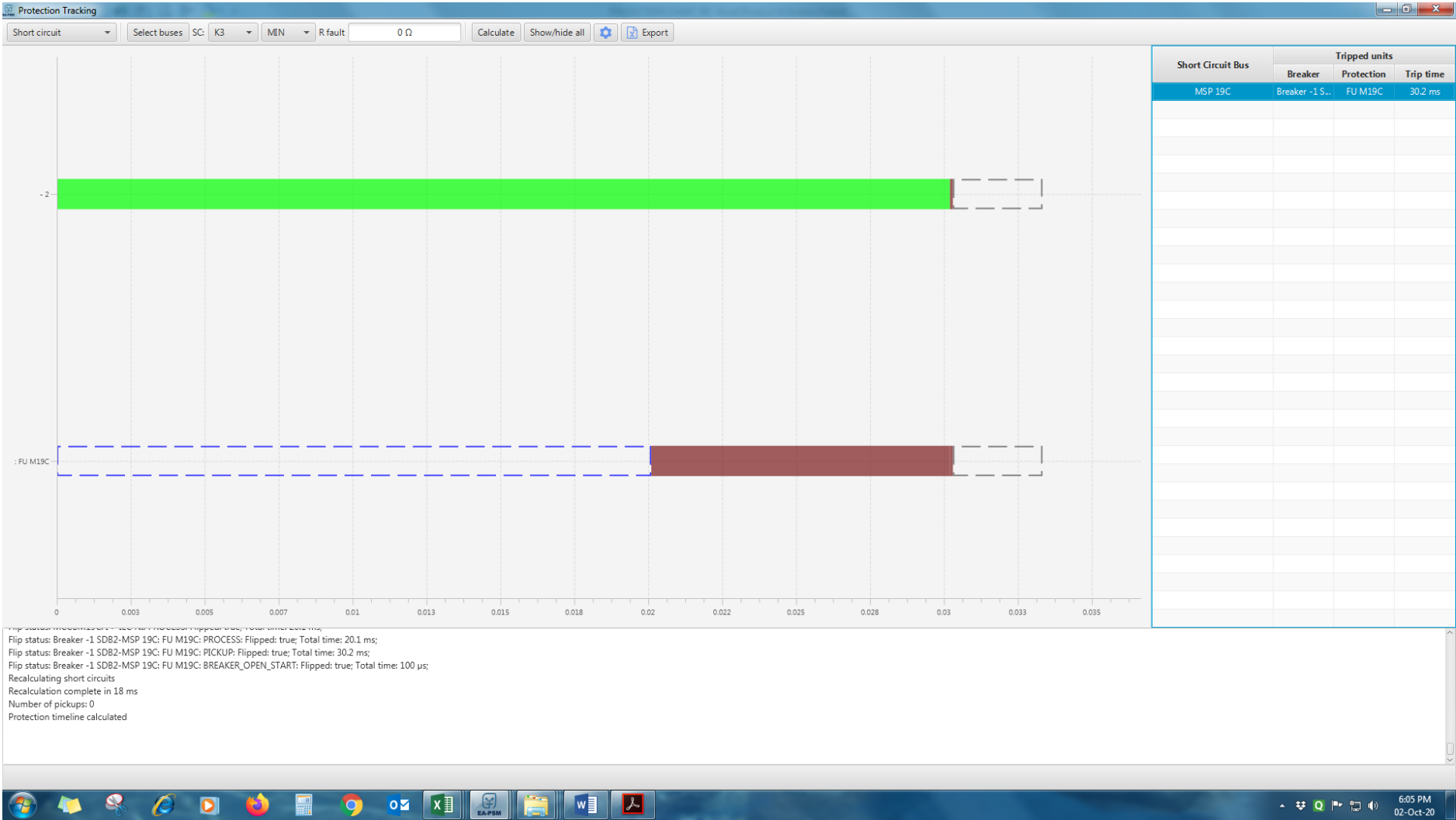
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI	
 Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status	
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHVARKA PROTECTION COORDINATION	Rev. R00	Date of issue 2020-06-01

PROTECTION COORDINATION FOR MSP14



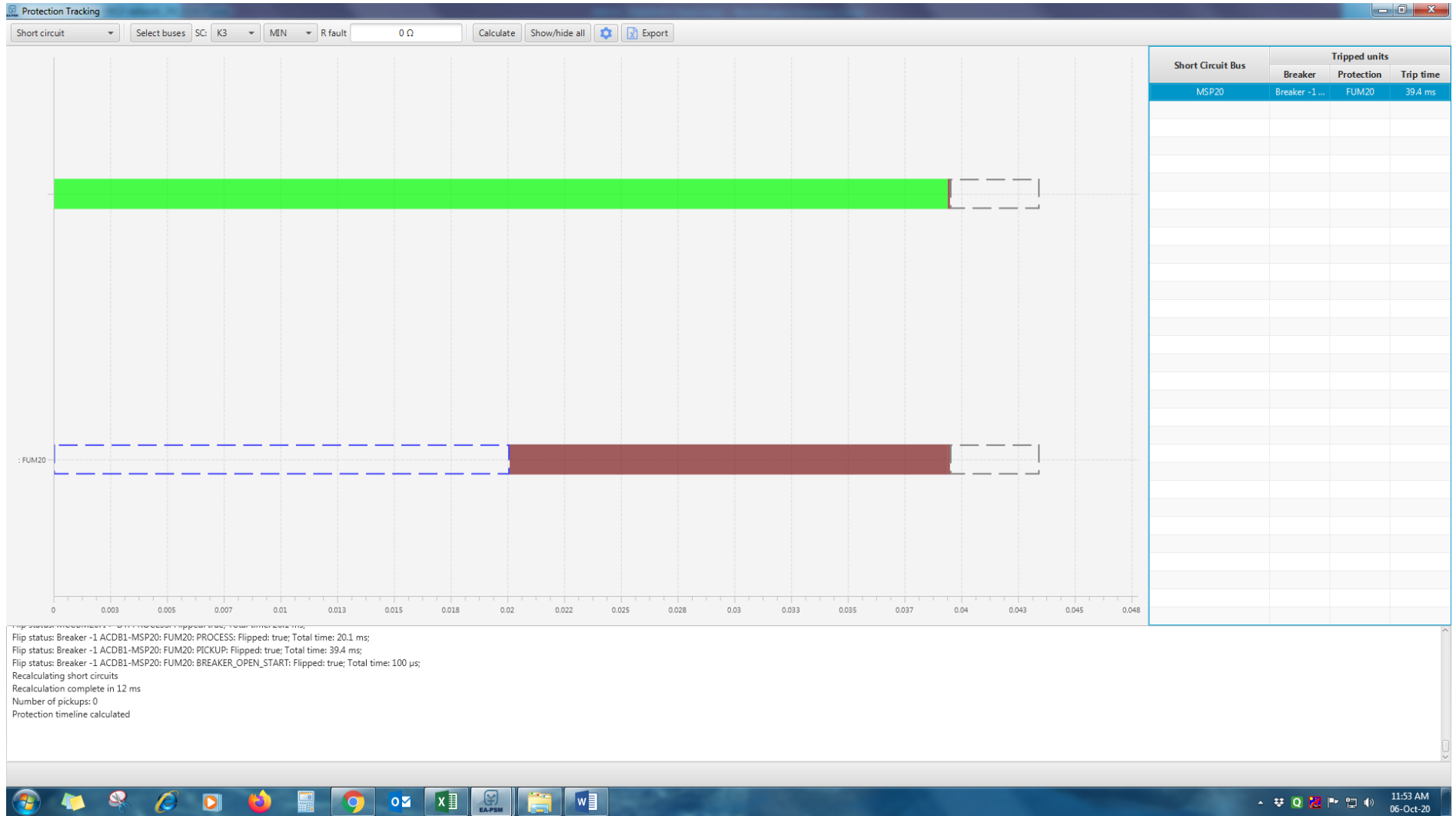
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI	
Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY		Document status
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION		
		Rev. R00	Date of issue 2020-06-01	Lang.

PROTECTION COORDINATION FOR MSP19C




Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI
Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHVARKA PROTECTION COORDINATION	
		Rev. R00	Date of issue 2020-06-01

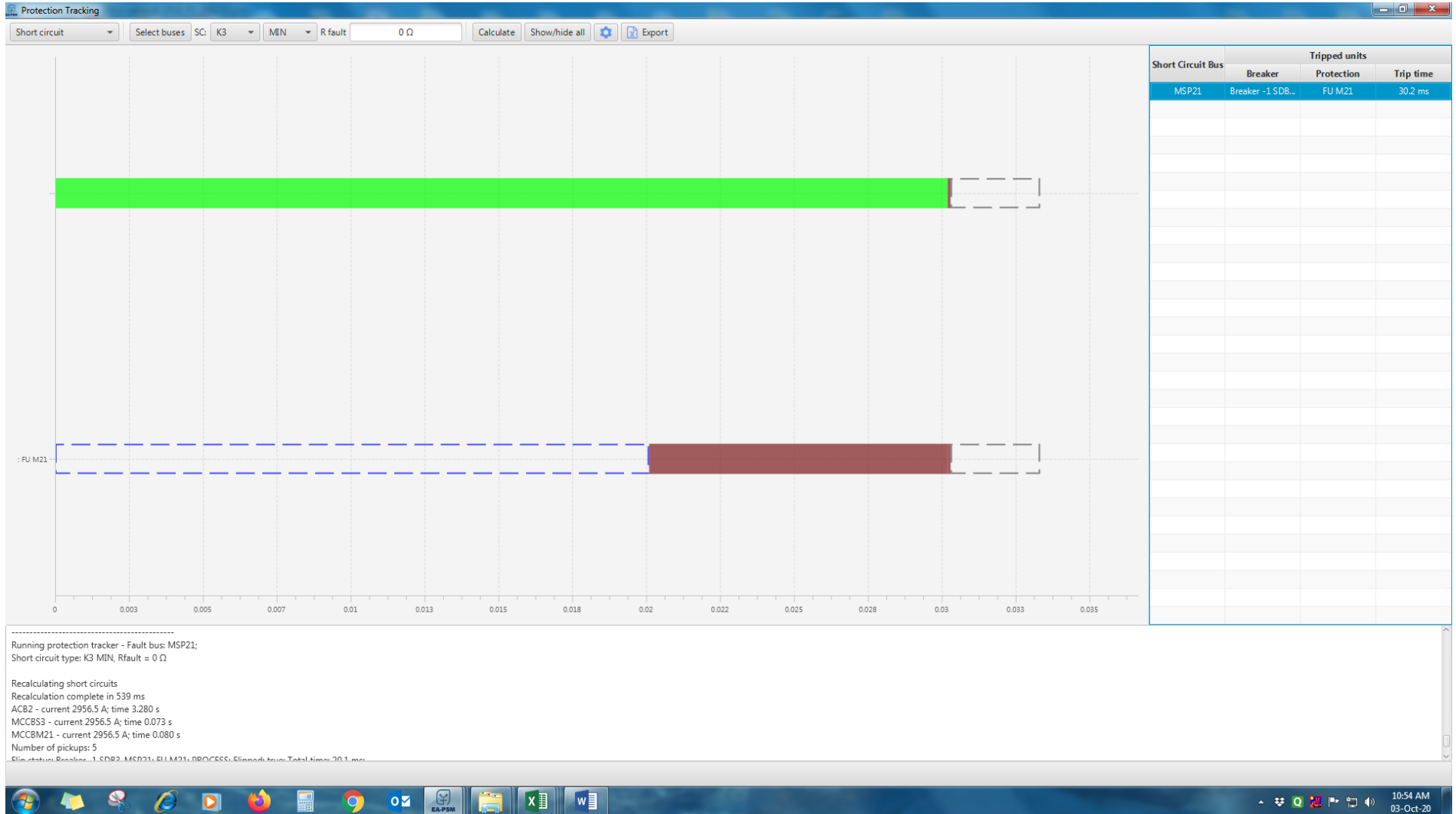
PROTECTION COORDINATION FOR MSP20



Flip status: Breaker -1 ACDB1-MSP20; FUM20; PROCESS: Flipped: true; Total time: 20.1 ms;
Flip status: Breaker -1 ACDB1-MSP20; FUM20; PICKUP: Flipped: true; Total time: 39.4 ms;
Flip status: Breaker -1 ACDB1-MSP20; FUM20; BREAKER_OPEN_START: Flipped: true; Total time: 100 μs;
Recalculating short circuits
Recalculation complete in 12 ms
Number of pickups: 0
Protection timeline calculated

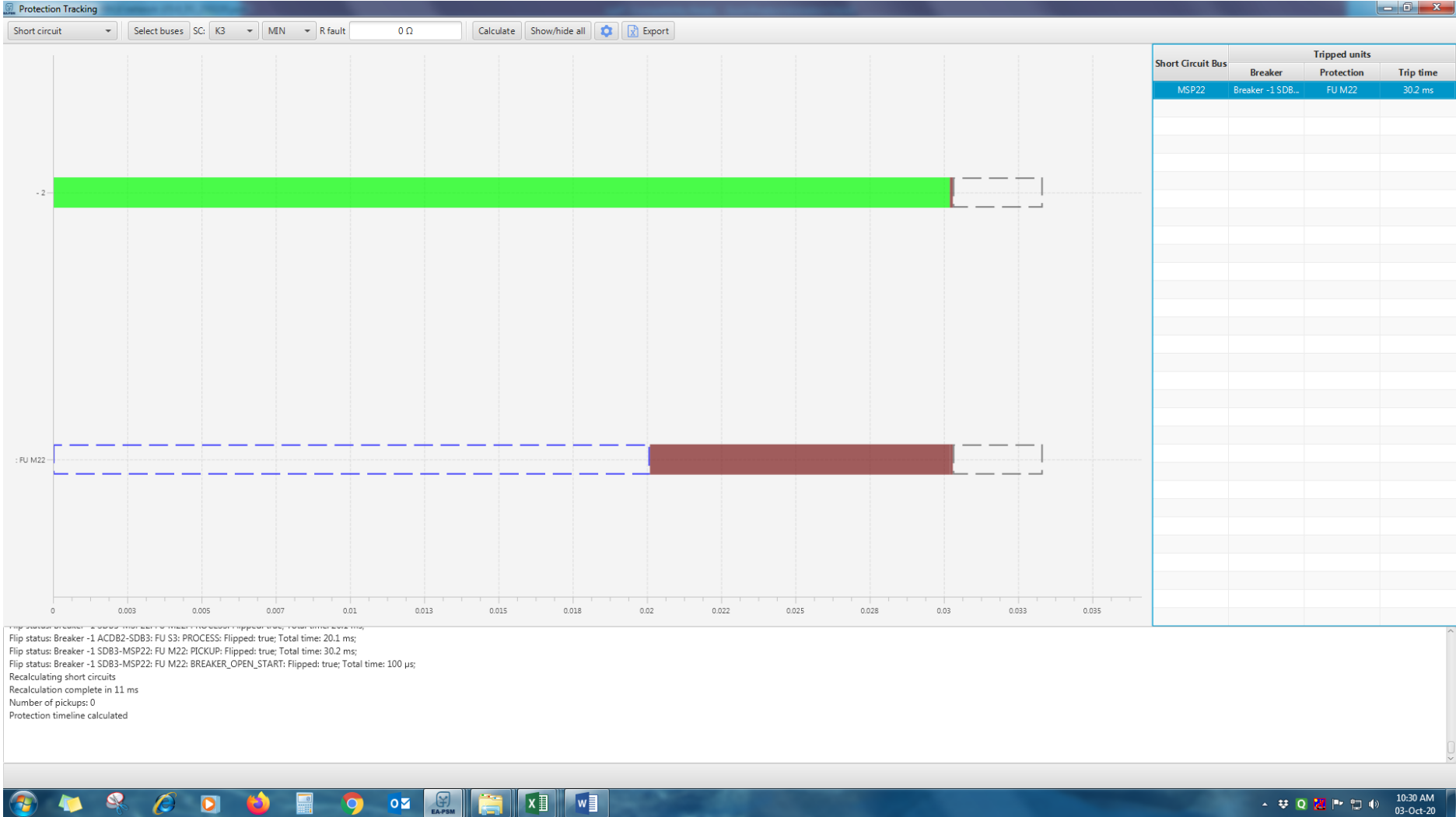
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PM		
 Persotech Solutions Innovations With Simplicity	Document type MV/LV NETWORK STUDY		Document status		
	Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION		Rev. R00	Date of issue 2020-06-01	Lang.


PROTECTION COORDINATION FOR MSP21



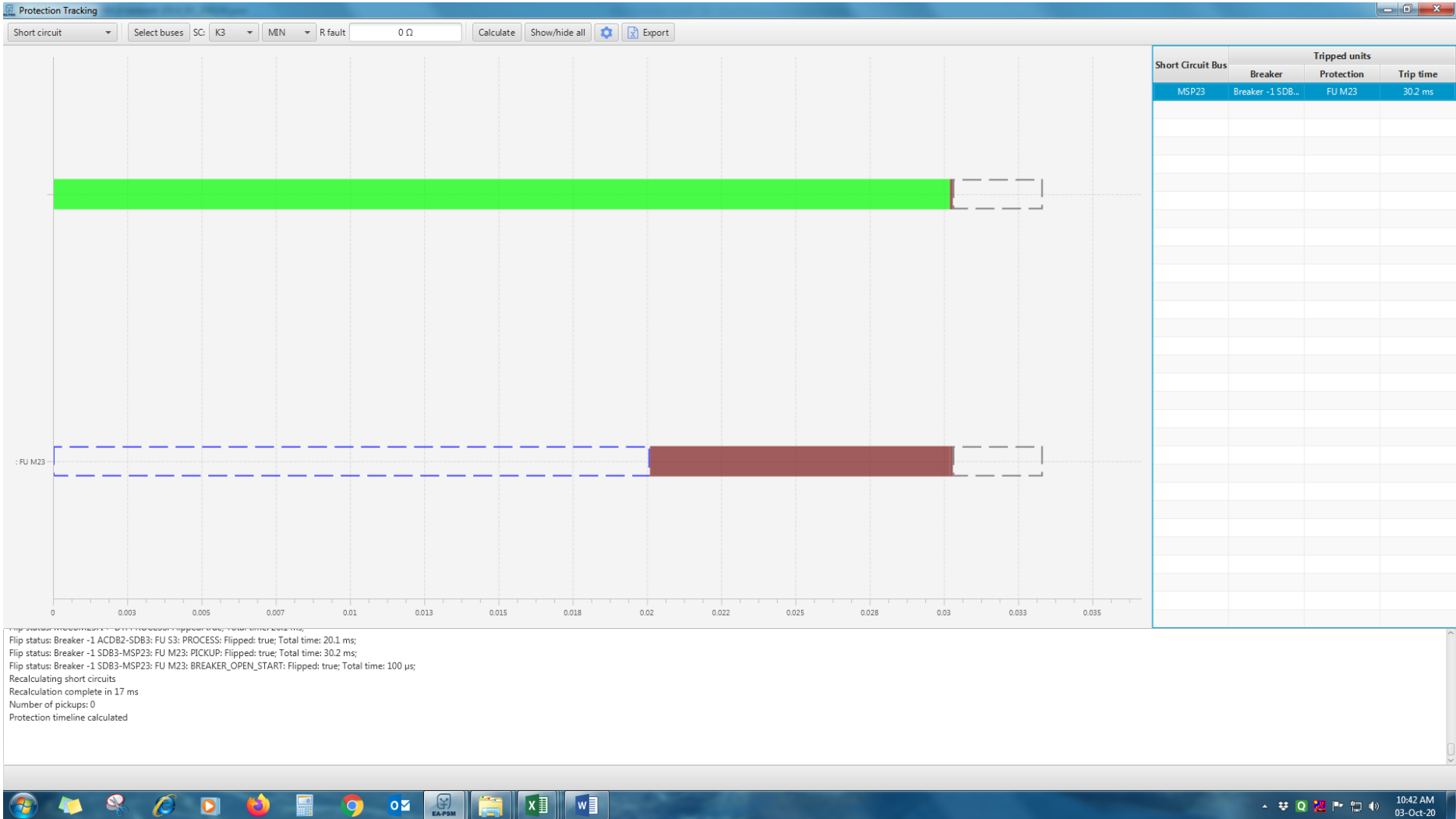
Responsible dept.	SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI	
Persotech Solutions Innovations With Simplicity	Document type MV/LV NETWORK STUDY	Document status		
	Title, Supplementary title STUDY FOR NONPLANT RSPL, DHMARKA PROTECTION COORDINATION	Rev. R00		
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PROTECTION COORDINATION FOR MSP22



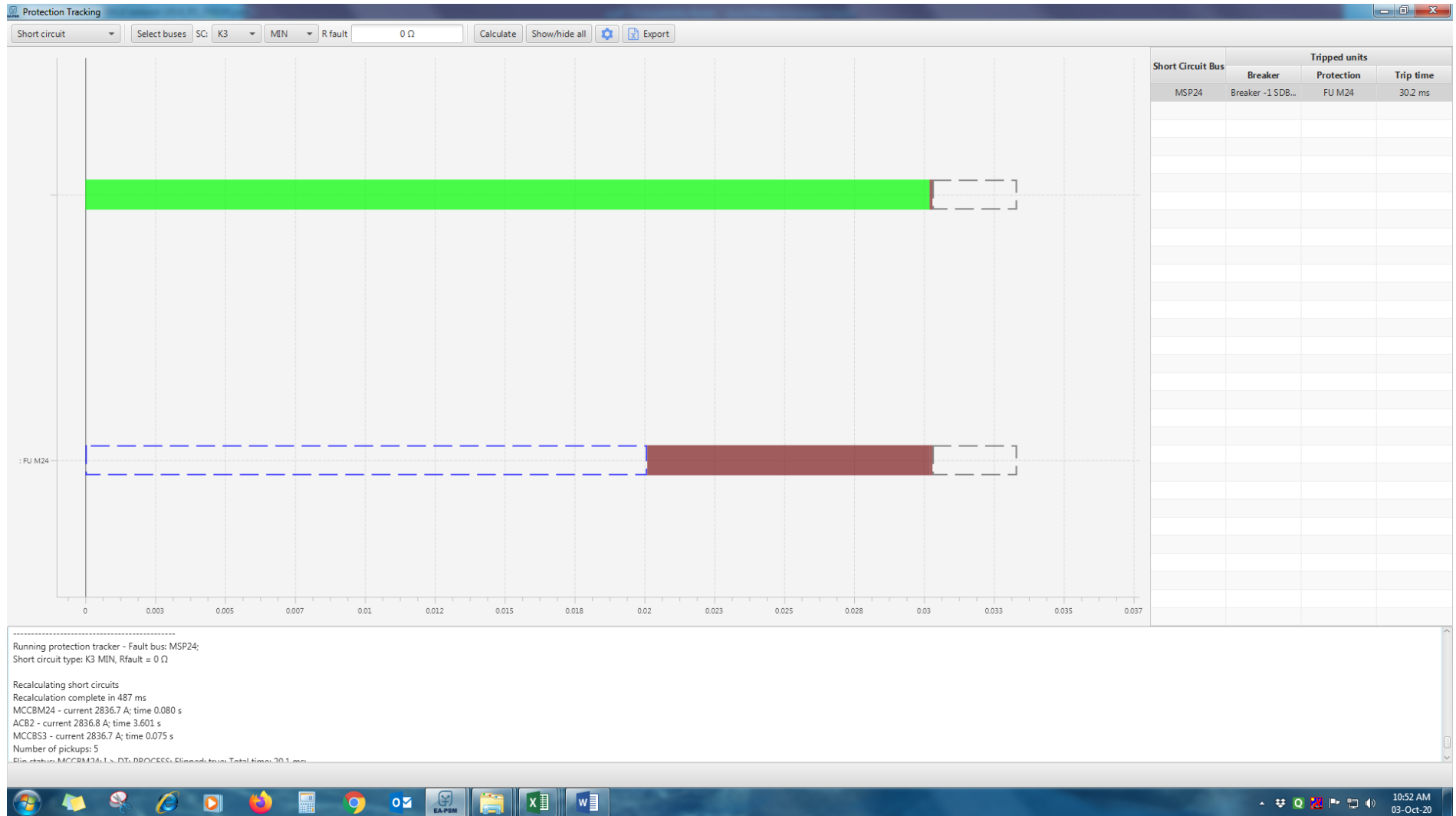
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 Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status		
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION		Rev. R00	Date of issue 2020-06-01


PROTECTION COORDINATION FOR MSP23



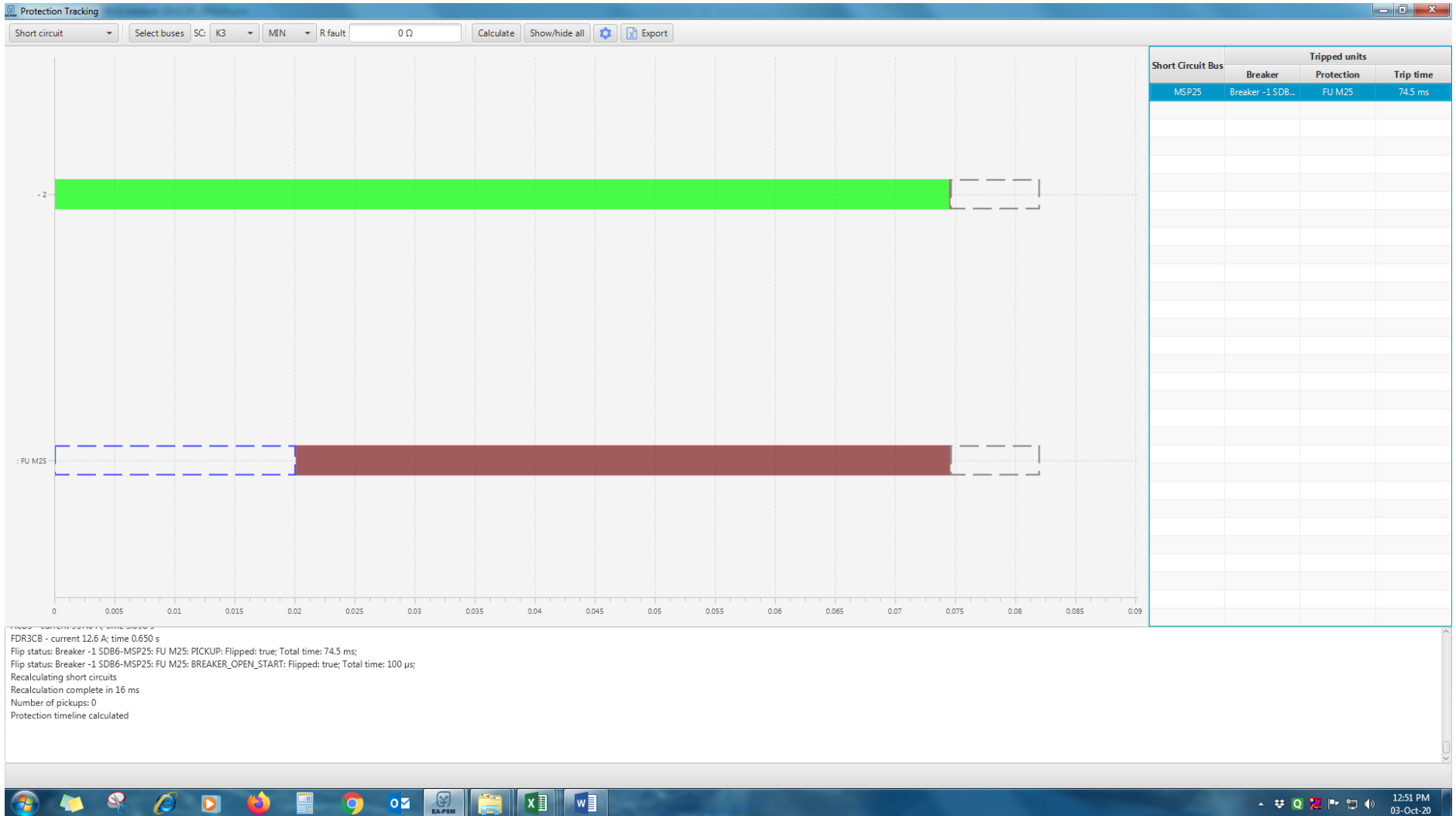
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI					
 Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY		Document status				
		Title, Supplementary title STUDY FOR NONPLANT RSPL, DHWARKA		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Rev. R00</td> <td style="width: 40%;">Date of issue 2020-06-01</td> <td style="width: 20%;">Lang.</td> <td style="width: 30%;">Sheet 13/20</td> </tr> </table>	Rev. R00	Date of issue 2020-06-01	Lang.	Sheet 13/20
		Rev. R00	Date of issue 2020-06-01		Lang.	Sheet 13/20		
PROTECTION COORDINATION								

PROTECTION COORDINATION FOR MSP24



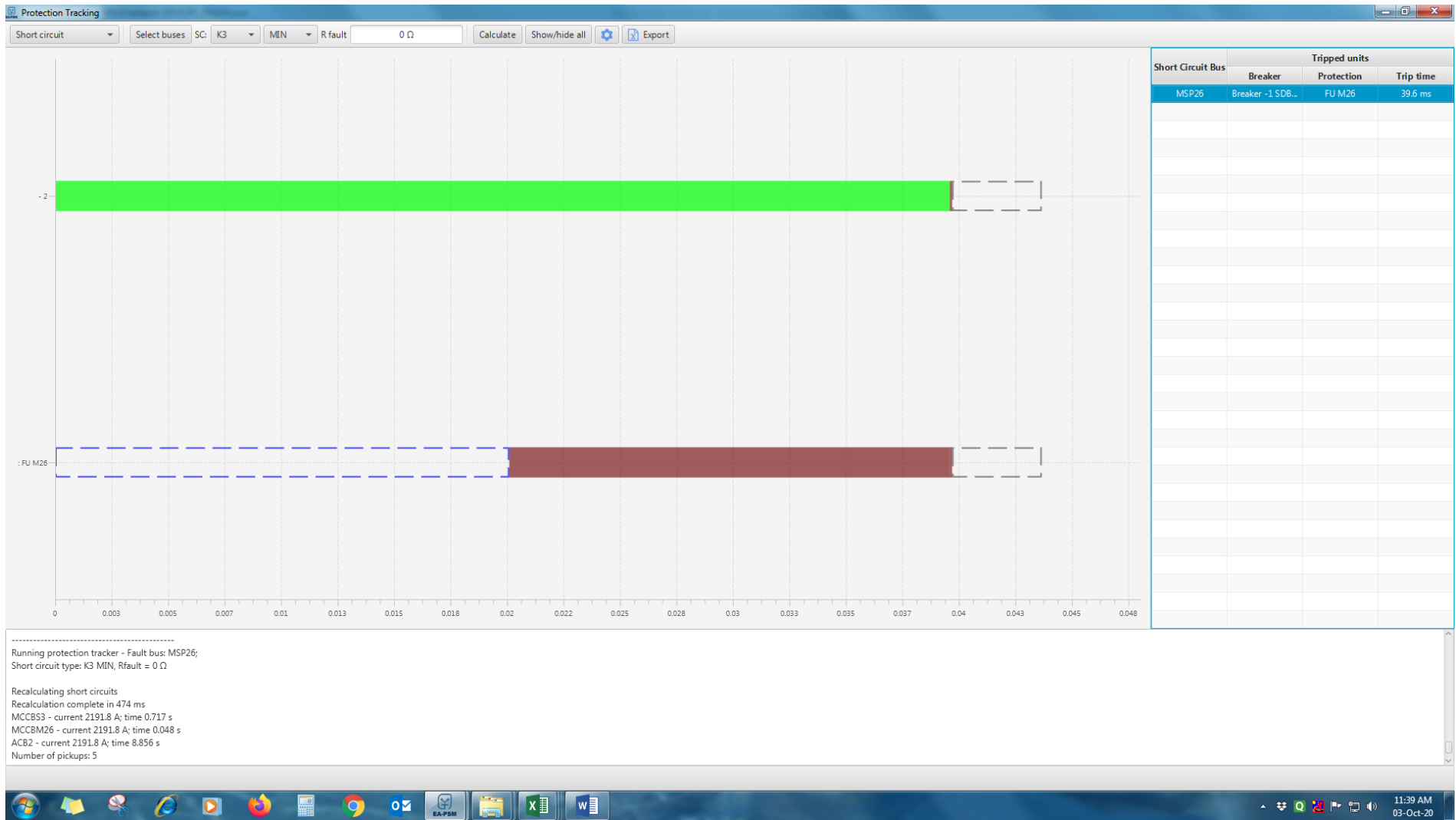
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI	
 Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status	
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION	Rev. R00	Date of issue 2020-06-01

PROTECTION COORDINATION FOR MSP25



Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI
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		Document status	
		Title, Supplementary title STUDY FOR NONPLANT RSPL DHWARKA	
		PROTECTION COORDINATION	
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PROTECTION COORDINATION FOR MSP26



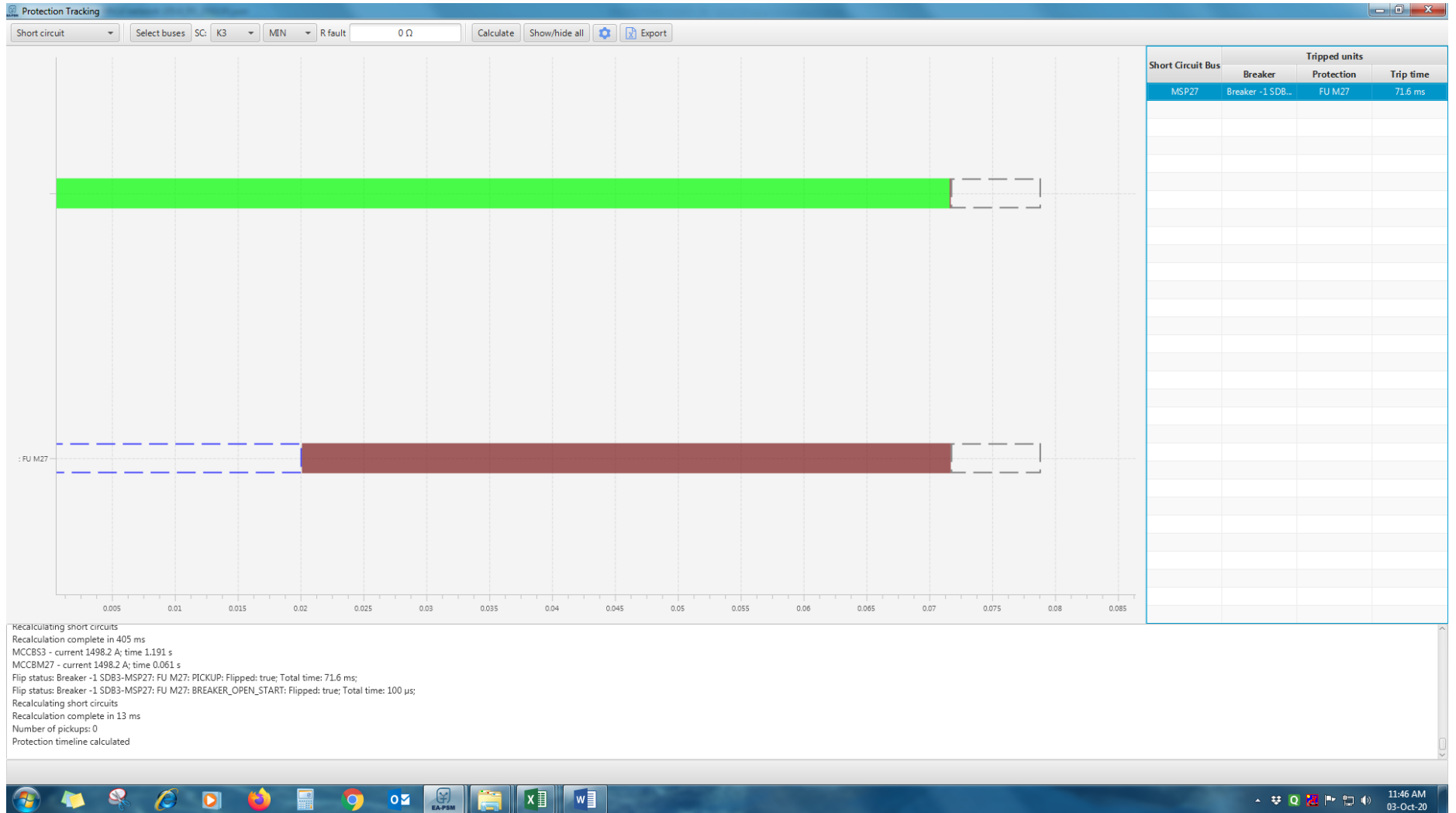
Short Circuit Bus	Tripped units		
	Breaker	Protection	Trip time
MSP26	Breaker -1 SDB...	FU M26	39.6 ms


Running protection tracker - Fault bus: MSP26;
 Short circuit type: K3 MIN, Rfault = 0 Ω

 Recalculating short circuits
 Recalculation complete in 474 ms
 MCCBS3 - current 2191.8 A; time 0.717 s
 MCCBM26 - current 2191.8 A; time 0.048 s
 ACB2 - current 2191.8 A; time 8.856 s
 Number of pickups: 5

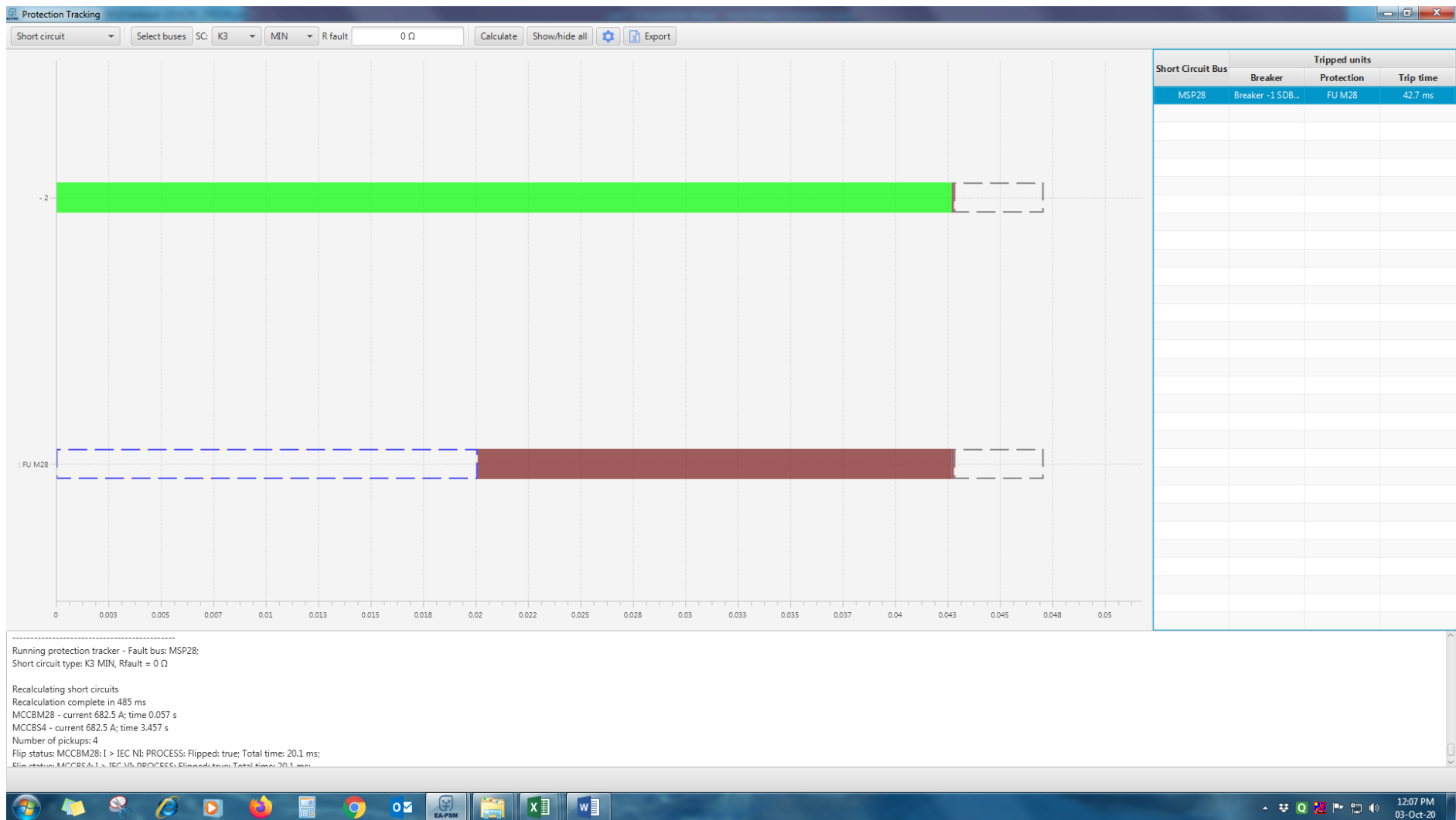
Responsible dept.		Technical reference SLD NONPLANT AREA RSPL		Created by KP		Approved by PMI				
				Document type MV/LV NETWORK STUDY		Document status				
				Title, Supplementary title STUDY FOR NONPLANT RSPL DHMARKA PROTECTION COORDINATION						
				Rev. R00	Date of issue 2020-06-01	Lang.	Sheet 16/20			

PROTECTION COORDINATION FOR MSP27



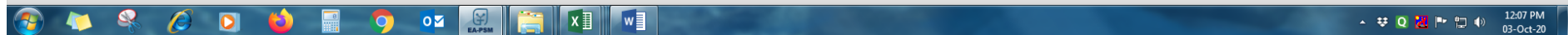
Responsible dept.	Technical reference SLD NONPLANT AREA RSPL	Created by KP	Approved by PMI
 Persotech Solutions Innovations With Simplicity		Document type MV/LV NETWORK STUDY	Document status
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PROTECTION COORDINATION FOR MSP28



Running protection tracker - Fault bus: MSP28;
 Short circuit type: K3 MIN, Rfault = 0 Ω


Recalculating short circuits
 Recalculation complete in 485 ms
 MCCBM28 - current 682.5 A; time 0.057 s
 MCCBS4 - current 682.5 A; time 3.457 s
 Number of pickups: 4
 Flip status: MCCBM28: I > IEC NI: PROCESS: Flipped: true; Total time: 20.1 ms;
 Flip status: MCCBS4: I > IEC NI: PROCESS: Flipped: true; Total time: 30.1 ms;




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FUSE DETAILS

Title	Bus	Element	In	Un
FU S1	SDB1	ACDB1-SDB1	400A	1kV
FU S2	SDB2	ACDB2-SDB2	300A	1kV
FU S6	SDB6	ACDB3-SDB6	300A	1kV
FU S3	SDB3	ACDB2-SDB3	425A	1kV
FU S4	SDB4	ACDB2-SDB4	250A	1kV
FU M1	MSP1	ACDB1-MSP1	400A	1kV
FU M2	MSP2	ACDB1-MSP2	400A	1kV
FU M3	MSP3	ACDB1-MSP3	400A	1kV
FU M4	MSP4	ACDB1-MSP4	400A	1kV
FU M5	MSP5	ACDB2-MSP5	200A	1kV
FU M6	MSP6	ACDB2-MSP6	300A	1kV
FU M7	MSP7	ACDB2-MSP7	300A	1kV
FU M8	MSP8	ACDB2-MSP8	300A	1kV
FUS5	SDB5	ACDB1-SDB5	50A	1kV
FU 9	MSP9	ACDB1-MSP9	400A	1kV
FU S7	SDB7	ACDB3-SDB7	160A	1kV
FU M10	MSP10	SDB1-MSP10	80A	1kV
FU M11	MSP11	SDB1-MSP11	125A	1kV
FU M12	MSP12	SDB1-MSP12	50A	1kV
FU M13	MSP13	SDB1-MSP13	63A	1kV
FU M14	MSP14	SDB1-MSP14	40A	1kV
FU M15	MSP15	SDB1-MSP15	200A	1kV
FU M16	MSP16	SDB1-MSP16	40A	1kV
FU S8	SDB8	SDB2-SDB8	50A	1kV
FU M17	MSP17	SDB2-MSP17	50A	1kV
FU M18	MSP18	SDB2-MSP18	100A	1kV
FU M19A	HOD19A	SDB2-HOD19A	50A	1kV
FU M19B	MSP19B	SDB2-MSP19B	50A	1kV
FU M19C	MSP19C	SDB2-MSP19C	50A	1kV
FU M20	MSP20	ACDB1-MSP20	63A	1kV
FU M21	MSP21	SDB3-MSP21	63A	1kV
FU M22	MSP22	SDB3-MSP22	50A	1kV
FU M23	MSP23	SDB3-MSP23	40A	1kV
FU M24	MSP24	SDB3-MSP24	100A	1kV
FU M25	MSP25	SDB6-MSP25	80A	1kV
FU M26	MSP26	SDB3-MSP26	125A	1kV

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Title	Bus	Element	In	Un
FU M26	MSP26	SDB3-MSP26	125A	1kV
FU M27	MSP27	SDB3-MSP27	125A	1kV
FU M28	MSP28	SDB4-MSP28	50A	1kV
FU S9	SDB9	ACDB3-SDB9	50A	1kV
FUS10	SDB10	SDB6-SDB10	16A	1kV

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 Persotech Solutions Innovations With Simplicity		Document type M/LV NETWORK STUDY	Document status	
		Title, Supplementary title STUDY FOR NONPLANT RSPL ,DHMARKA PROTECTION COORDINATION	Rev. R00	Date of issue 2020-06-01