VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF MAIN OPERATOR PANEL	VALIDATION / STAMP	TIME (min): 38.5
SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB		ENG	Created: 11/29/2022
LEDGER COMPONENTS :	MAN POWER 1	SAFETY	Review: Frequency (x/year): 52

MANDATORY PPE:

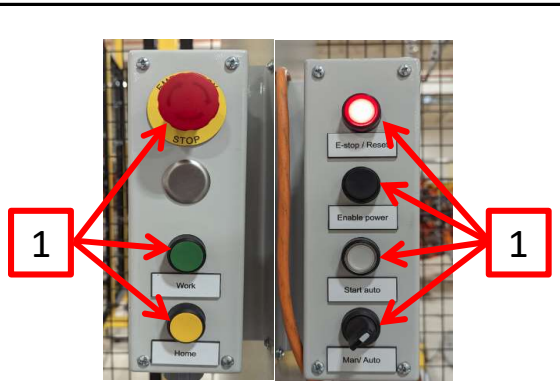
SPECIFIC PPE: No special PPE beyond standard for this check.

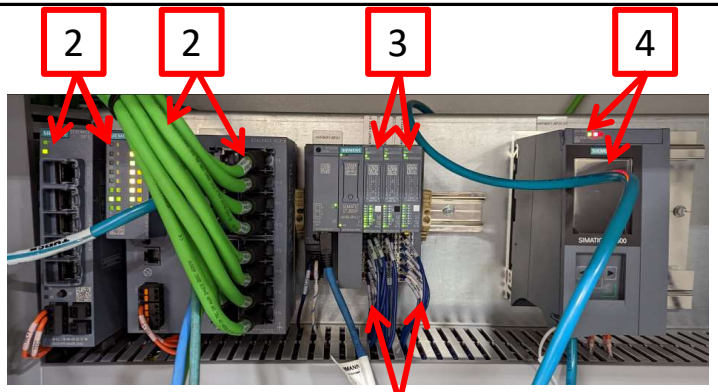
HAZARDS: Electricity

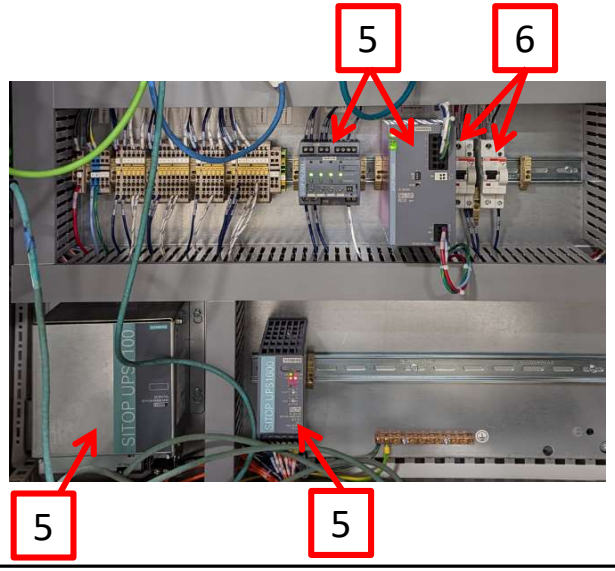
STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1		Lock out robot cell.			LOCK	UNABLE TO START CELL	1
2		Visually inspect the Main Operator Panel for any damage, wear, indentations, or other outstanding damage.			VISUAL	GOOD CONDITION	1
3		Visually inspect the Main Operator Panel's display screen for any cracks, scratches, or other damage. Replace as necessary.			VISUAL	GOOD CONDITION	5
4	1	Visually inspect the Main Operator Panel's pushbuttons for any damaged or jammed buttons, or burnt out LEDs. Replace the pushbuttons as necessary.			VISUAL	GOOD CONDITION	2
5	2	Visually inspect the Main Operator Panel's EtherNet switch for any damage, missing connections, or exposed / fraying wires. Replace the EtherNet switch as necessary.			VISUAL	GOOD CONDITION	5
6	3	Visually inspect the Main Operator Panel's Input / Output modules for any damage, loose components, missing connections, or exposed / fraying wires. Replace the input / output modules as required.			VISUAL	GOOD CONDITION	5
7	4	Visually inspect the Main Operator Panel's CPU unit for any burnt out LEDs, non functioning display screen, loose connections, exposed wires, or other outstanding damage. Replace the CPU unit as necessary.			VISUAL	GOOD CONDITION	10
8	5	Visually inspect the Main Operator Panel's power supplies for any damage, exposed wires, fraying wires, burnt out LEDs, loose components, or missing fasteners. Replace the power supply units as necessary.			VISUAL	GOOD CONDITION	5
9	6	Visually inspect the Main Operator Panel's circuit breakers for any damage, missing connections, fraying or exposed wires, or if the circuit breakers are in the OFF position. Replace the circuit breakers as necessary.			VISUAL	GOOD CONDITION	2.5
10	7	Visually inspect the Main Operator Panel's display screen for any dirt, dust, or buildup. Use a clean rag and a non-abrasive cleaning agent to remove any foreign material from the screen.			CLEAN RAG CLEANING SOLUTION	GOOD CONDITION CLEAN	2
11							
12							
13							

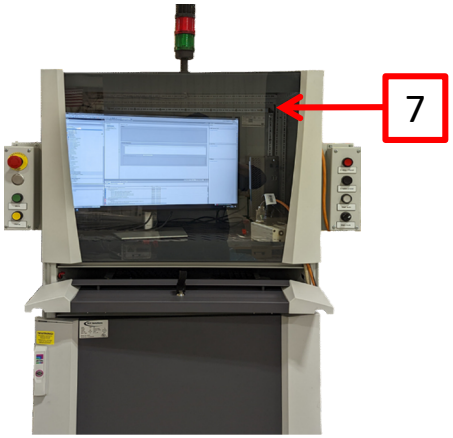
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION:	TASK SMP : WEEKLY INSPECTION OF MAIN OPERATOR PANEL	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB









VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF WEISS VARIABLE FREQUENCY DRIVE PANEL	VALIDATION / STAMP	TIME (min): 26
SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB		ENG	Created: 11/29/2022
LEDGER COMPONENTS :	MAN POWER 1	SAFETY	Review: Frequency (x/year): 52

MANDATORY PPE:

SPECIFIC PPE: No special PPE beyond standard for this check.

HAZARDS: Electricity

STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1		Visually inspect Weiss Variable Frequency Drive Panel for any damage, wear, or other outstanding damage.			VISUAL	GOOD CONDITION	1
2	1	Visually inspect Weiss Variable Frequency Drive Panel's Drive and Power Module for any damage, wear, missing or loose connections, exposed wires, or fraying wires. Replace the Drive Module or Power Module as necessary.			VISUAL	GOOD CONDITION	10
3	2	Visually inspect the Weiss Variable Frequency Drive Panel's circuit breaker for any damage, loose connections, or if the breaker is in the tripped position. Replace the circuit breaker as necessary.			VISUAL	GOOD CONDITION	5
4	3	Visually inspect the Weiss Variable Frequency Drive Panel's disconnect switch for loose connections, exposed or fraying wires, missing connections, and that the switch is operational. Replace disconnect switch as necessary.			VISUAL	GOOD CONDITION	5
5	4	Visually inspect the Weiss Variable Frequency Drive Panel's power supply unit for any loose connections, missing screws, exposed or fraying wires, burnt out LEDS, or other outstanding damage. Replace the power supply unit as necessary.			VISUAL	GOOD CONDITION	5
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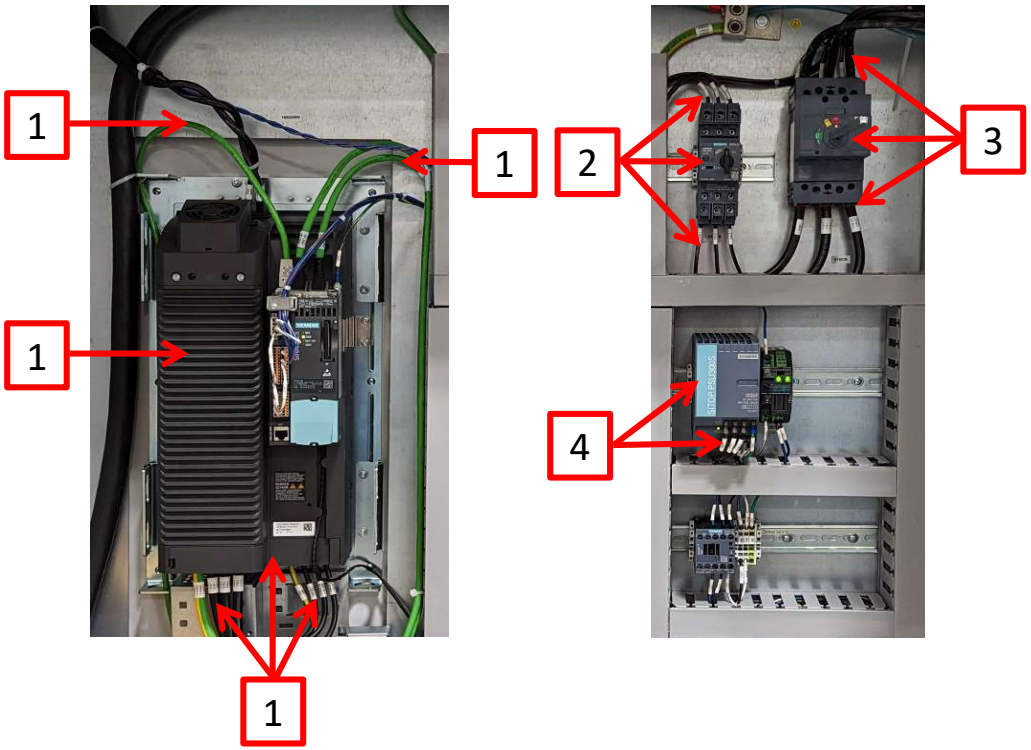
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION:	TASK SMP : WEEKLY INSPECTION OF WEISS VARIABLE FREQUENCY DRIVE PANEL	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB



VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11	TASK SMP : WEEKLY POWER DISTRIBUTION PANEL INSPECTION	VALIDATION / STAMP	TIME (min): 34
SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB		ENG	Created: 11/29/2022
LEDGER COMPONENTS :	MAN POWER 1	SAFETY	Review: Frequency (x/year): 52

MANDATORY PPE:

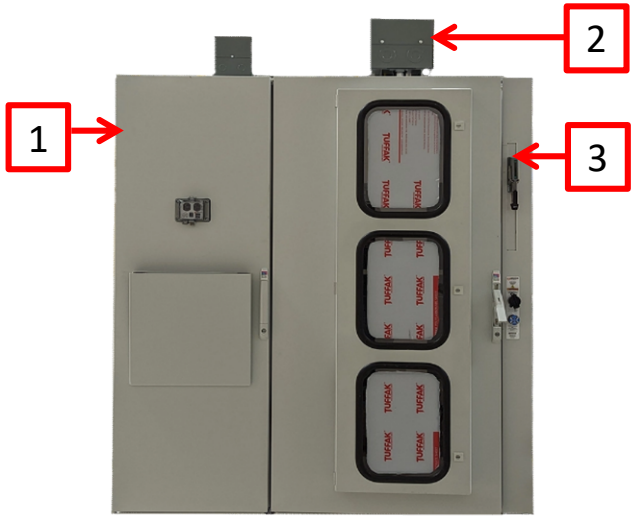
SPECIFIC PPE: No special PPE beyond standard for this check.

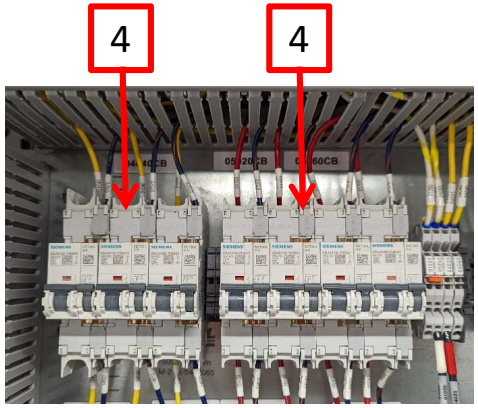
HAZARDS: Electricity

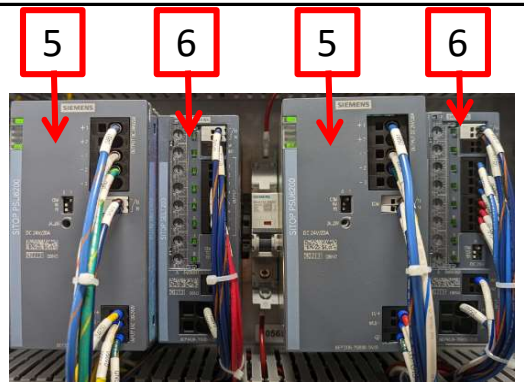
STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1	1	Visually inspect the Power Distribution Panel for any damage or wear. Ensure that the electrical connections are free of any cuts, exposed wires, or fraying. Replace as necessary.			VISUAL	GOOD CONDITION	2
2	2	Visually inspect the Power Distribution Panel's transformers for any indentations, loose connections, or other damage. Replace as necessary.			VISUAL	GOOD CONDITION	2
3	3	Inspect the Power Distribution Panel's main disconnect switch and verify that the disconnect is placed into the ON position.			VISUAL	GOOD CONDITION	2
4	4	Inspect the Power Distribution Panel's SIEMENS circuit breakers for damage or wear. Verify all components are working properly. Replace as necessary.			VISUAL	GOOD CONDITION	2
5	5	Visually inspect the Power Distribution Panel's power supply units for any damage, wear, loose or missing connections, or exposed or fraying wires. Replace the power supplies as necessary.			VISUAL	GOOD CONDITION	2
6	6	Visually inspect the Power Distribution Panel's selectivity modules for any damage, loose connections, exposed or fraying wires, or other outstanding damage. Replace as necessary.			VISUAL	GOOD CONDITION	2
7	7	Visually inspect the Power Distribution Panel's PROFINET module for any damage, exposed or fraying wires, burnt out LEDS, or other outstanding damage. Replace the PROFINET module as necessary.			VISUAL	GOOD CONDITION	5
8	8	Visually inspect the Power Distribution Panel's input modules for burnt out LEDS, if the component is loose, or if the module has any fraying or exposed wires. Replace the input module as necessary.			VISUAL	GOOD CONDITION	5
9	9	Visually inspect the Power Distribution Panel's output modules for burnt out LEDs, if the components are loose, or if the module has any fraying or exposed wires. Replace the output module as necessary.			VISUAL	GOOD CONDITION	5
10	10	Visually inspect the EtherNet switch for any damage, burnt out LEDs, loose or missing connections, or exposed or fraying wires. Replace the EtherNet switch as necessary.			VISUAL	GOOD CONDITION	5
11		Visually inspect the Power Distribution Panel for any dirt, dust, or build up. Use a clean rag and a plant approved cleaning agent to remove any build up from the panel.			CLEAN RAG CLEANING SOLUTION	GOOD CONDITION	2
12							

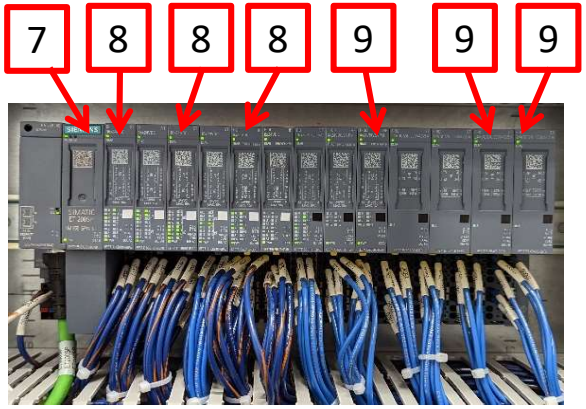
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION: 2V11	TASK SMP : WEEKLY POWER DISTRIBUTION PANEL INSPECTION	

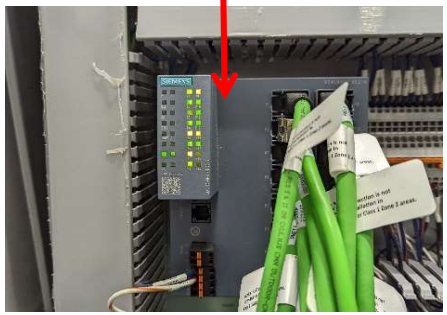
SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB











VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11

TASK SMP : WEEKLY INSPECTION OF ANCILLARY AIR PREPARATION PANEL

VALIDATION / STAMP

TIME (min): 14

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB

ENG

Created: 11/29/2022

LEDGER COMPONENTS :

MAN POWER 1

SAFETY

Review:

Frequency (x/year): 52

MANDATORY PPE:

SPECIFIC PPE: No special PPE beyond standard for this check.

HAZARDS: AIR, EYES

STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1	1	Visually inspect the Ancillary Air Preparation Panel for any damage or wear. Listen for any sounds of leaking air. Look for cracks, or loose fittings. Replace fittings as necessary.			VISUAL	GOOD CONDITION	2
2	2	Visually inspect the Ancillary Air Preparation Panel's air lines for any cuts, kinks, or other damage. Replace as necessary.			MS9-LFR-VISUALNG-D7-E-U-M-AG-PSI-AS	GOOD CONDITION	5
3	3	Inspect the Ancillary Air Preparation Panel's Filter Regulator's filter. Replace the filter as necessary.			MS9-LFR-NG-D7-E-U-M-AG-PSI-AS	GOOD CONDITION	5
4	4	Visually inspect the Ancillary Air Preparation Panel's silencer for cleanliness and performance, replace the silencer if dirty.			VISUAL	GOOD CONDITION / CLEAN	2
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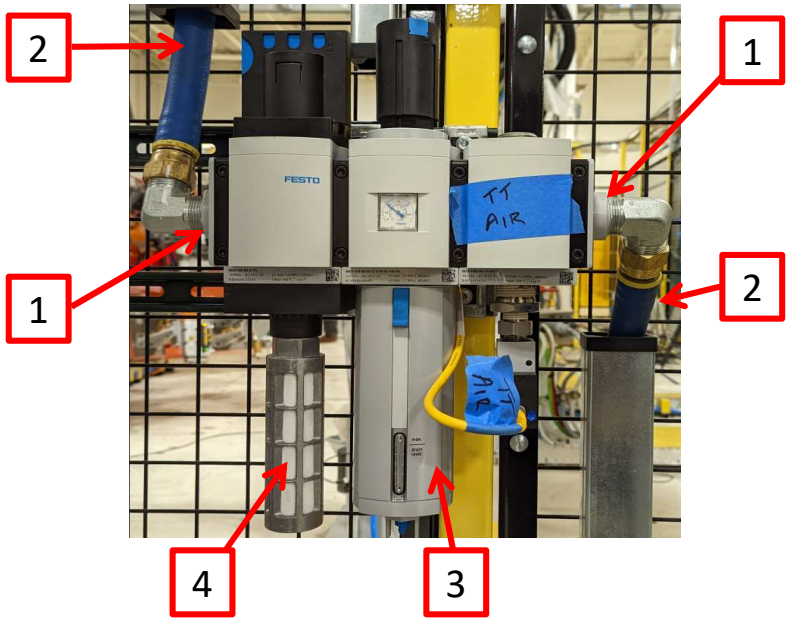
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF ANCILLARY AIR PREPARATION PANEL	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB



VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11

TASK SMP : WEEKLY INSPECTION OF MAIN AIR PREPARATION PANEL

VALIDATION / STAMP

TIME (min): 9

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB

ENG

Created: 11/29/2022

LEGDER COMPONENTS :

MAN POWER 1

SAFETY

Review:

Frequency (x/year): 52

MANDATORY PPE:

SPECIFIC PPE: No special PPE beyond standard for this check.

HAZARDS: AIR, EYES

STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1	1	Visually inspect the Main Air Preparation Panel for any damage or wear. Listen for any sounds of leaking air. Look for cracks, or loose fittings. Replace fittings as ncessary.			VISUAL	GOOD CONDITION	2
2	2	Inspect the Main Air Preparation Panel's Filter Regualtor's filter. Repalce the filter as ncessary.			MS9-LFR-NG-D7-E-U-M-AG-PSI-AS	GOOD CONDITION	5
3	3	Visually inspect the Main Air Preparation Panel's silencer for cleanliness and performance, replace the silencer if dirty.			VISUAL	GOOD CONDITION / CLEAN	2
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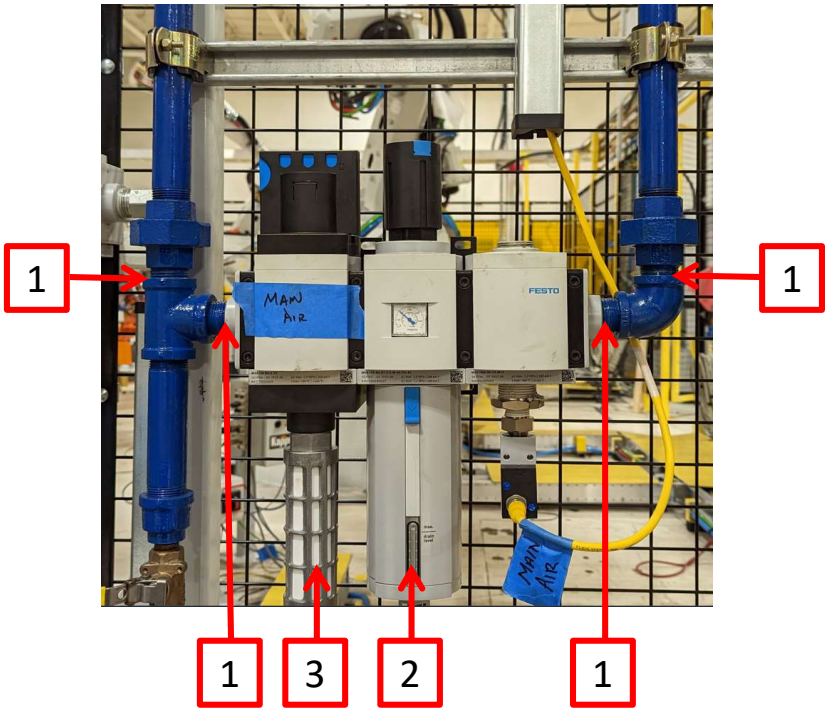
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF MAIN AIR PREPARATION PANEL	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB



VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF MAIN WATER STAND	VALIDATION / STAMP	TIME (min): 10
SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB		ENG	Created: 11/29/2022
LEDGER COMPONENTS :	MAN POWER 1	SAFETY	Review: Frequency (x/year): 52

MANDATORY PPE:

SPECIFIC PPE: No special PPE beyond standard for this check.

HAZARDS: WATER, EYES

STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1	1	Visually inspect the Main Water Stand for any damage. Look for leaking water from the fittings. Replace the fittings as necessary.			VISUAL	GOOD CONDITION	2
2	2	Visually inspect the Main Water Stand's bag filter for any damage. Replace filter as necessary.			20403-004-1.5" OMNI CONTROLS	GOOD CONDITION	5
3	3	Visually inspect the Main Water Stand's Water differential pressure switch of any damage or wear. Verify the electrical connections are free of any cuts, damage, fraying, or exposed wires. Replace as necessary.			DP-F-KIT OMNI CONTROLS	GOOD CONDITION	3
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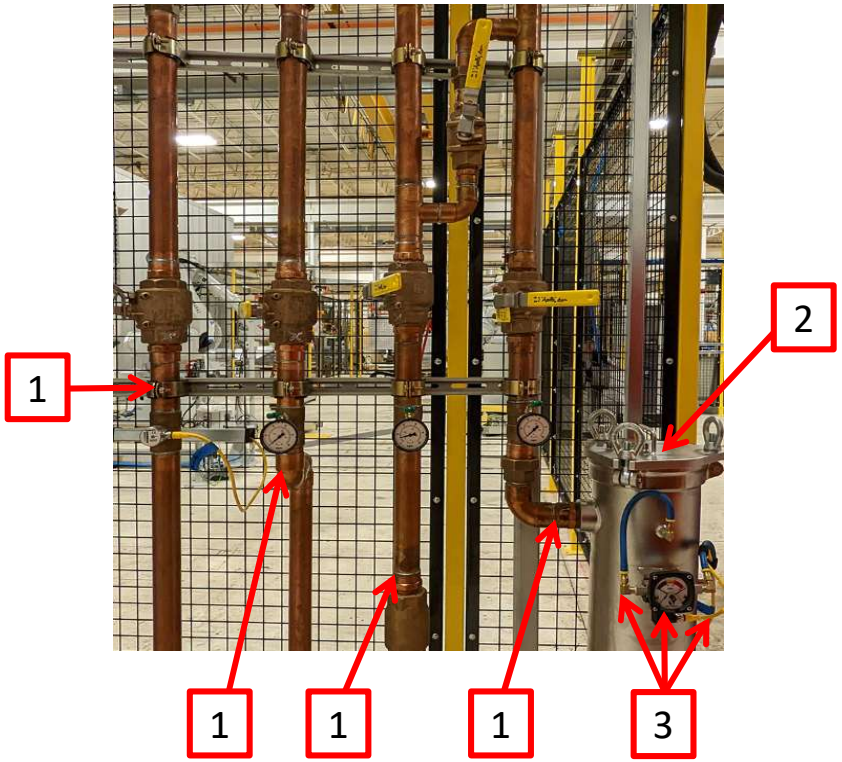
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF MAIN WATER STAND	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB



VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF EUCHNER SAFETY GATE SWITCH	VALIDATION / STAMP	TIME (min): 10
SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB		ENG	Created: 11/29/2022
LEDGER COMPONENTS :	MAN POWER 1	SAFETY	Review: Frequency (x/year): 52

MANDATORY PPE:

SPECIFIC PPE: No special PPE beyond standard for this check.

HAZARDS: ELECTRIC

STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1	1	Visually inspect the EUCHNER Safety Gate Switch for any damage such as broken pushbuttons, burnt out LEDS, or other damage. Replace the pushbuttons as necessary.			VISUAL	GOOD CONDITION	2
2	2	Visually inspect the EUCHNER Safety Gate Switch's electrical connections for any fraying or exposed wires. Replace as necessary.			VISUAL	GOOD CONDITION	5
3	3	Visually inspect the EUCHNER Safety Gate Switch and verify the safety gate locks correctly. Replace the EUCHNER Safety Gate Switch if the interlocking device does not work correctly.			VISUAL	GOOD CONDITION	3
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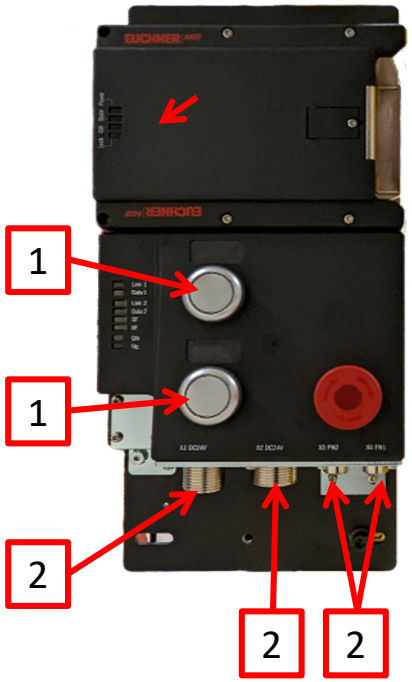
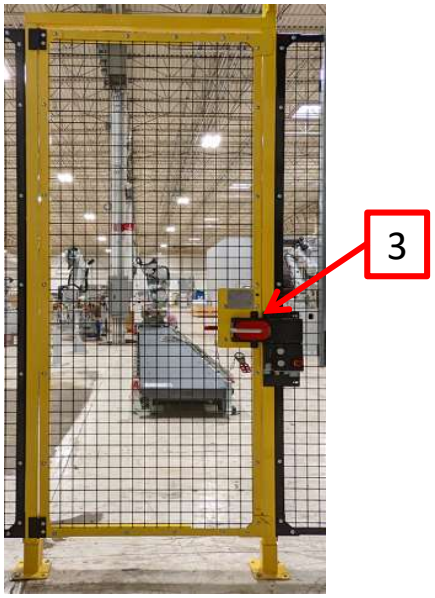
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF EUCHNER SAFETY GATE SWITCH	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB





VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11

TASK SMP : WEEKLY INSPECTION OF LIGHT SCREENS

VALIDATION / STAMP

TIME (min): 20

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB

ENG

Created: 11/29/2022

LEDGER COMPONENTS :

MAN POWER 1

SAFETY

Review:

Frequency (x/year): 52

MANDATORY PPE:

SPECIFIC PPE: No special PPE beyond standard for this check.

HAZARDS: ELECTRIC, EYES

STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1	1	Visually inspect the safety light screens and verify there are no objects blocking the protective field. Remove any objects obstructing the light screens.			VISUAL	GOOD CONDITION	2
2	2	Visually inspect the safety light screen's electrical connections, verify there are no loose connections, exposed or fraying wires, or other damage. Replace the connections as required.			VISUAL	GOOD CONDITION	5
3	3	Clean the light screens using a micro-fiber rag and an anti-static plastic cleaner to remove any dirt, dust, or grime from the light screens.			CLEAN RAG ANTI-STATIC CLEANER	GOOD CONDITION	3
4	4	Inspect the light screen's LEDs and verify no LEDs are burnt out. Replace the light screen as necessary.			VISUAL	GOOD CONDITION	10
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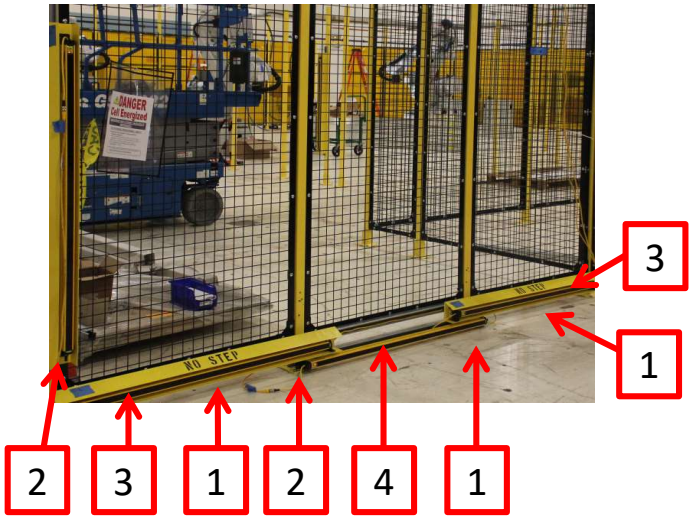
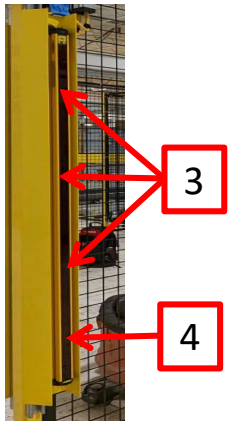
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF LIGHT SCREENS	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB





VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF OPERATOR RUN BAR	VALIDATION / STAMP	TIME (min): 12
SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB		ENG	Created: 11/29/2022
LEDGER COMPONENTS :	MAN POWER 1	SAFETY	Review: Frequency (x/year): 52

MANDATORY PPE:

SPECIFIC PPE: No special PPE beyond standard for this check.

HAZARDS: ELECTRIC

STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1	1	Visually inspect the Operator Run bar for any damage or wear. Ensure that the electrical connections are free of any cuts, exposed wires, or fraying wires. Replace the electrical connections as necessary.			VISUAL	GOOD CONDITION	2
2	2	Visually inspect the Operator Run Bar's optical touch button for any damage or wear. Ensure that the button is operational. Replace if necessary.			VISUAL	GOOD CONDITION	5
3	3	Visually inspect the Operator Run bar's emergency stop and verify it works as intended. Replace the emergency stop if required.			VISUAL	GOOD CONDITION	3
4		Visually inspect the Operator Run bar for any dirt, dust accumulation, or build up. Use a clean rag and a plant approved cleaning agent to remove any foreign materials.			CLEAN RAG CLEANING SOLUTION	GOOD CONDITION	2
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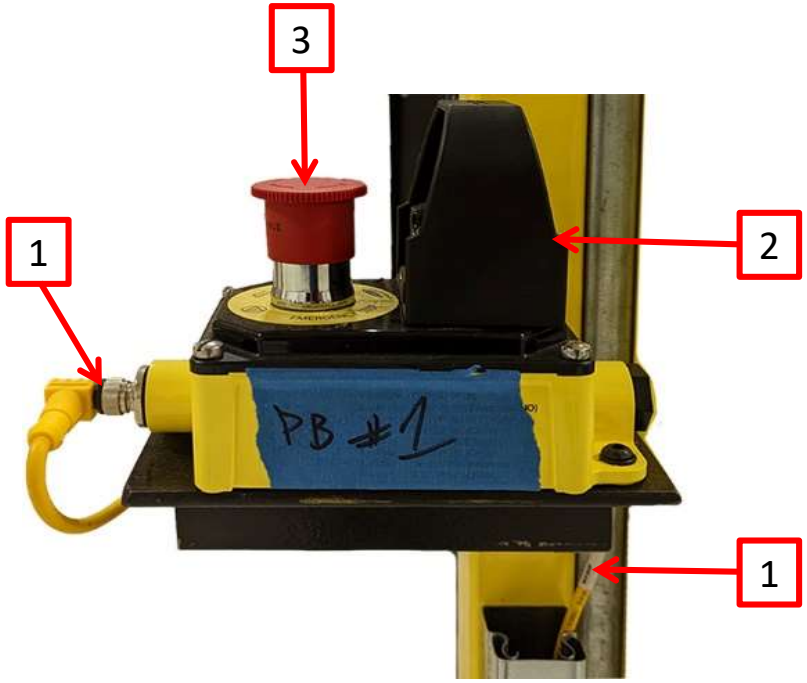
VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF OPERATOR RUN BAR	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB



VOLVO

STANDARD MAINTENANCE PROCEDURE

SMP Nº : 0001

STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF OPERATOR DISPLAY PANEL	VALIDATION / STAMP	TIME (min): 23
SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB		ENG	Created: 11/29/2022
LEGDER COMPONENTS :	MAN POWER 1	SAFETY	Review: Frequency (x/year): 52

MANDATORY PPE:	SPECIFIC PPE: No special PPE beyond standard for this check.	HAZARDS: ELECTRIC
		

STEP	ITEM	INSTRUCTION	HAZARD	SAFETY PROCEDURES	TOOL	PARAMETER	ACTION (min)
1	1	Visually inspect the Operator Display Panel for any damage or wear. Pay attention to the electrical connections and verify there are no cuts, fraying wires, or exposed wires. Replace the electrical connections if required.			VISUAL	GOOD CONDITION	1
2	2	Visually inspect and verify that the Operator Display Panel's indicator light illuminates to the required color. Replace if necessary.			VISUAL	GOOD CONDITION	5
3	3	Visually inspect the Operator Display Panel's screen for any damage, cuts, scratches, or cracks. Replace if the screen if necessary.			VISUAL	GOOD CONDITION	10
4	4	Visually inspect the Operator Display Panel for any dirt, dust, or build up. Use a clean rag and a plant approved, non-abrasive cleaning agent to remove any dirt, dust, or grime from the screen.			CLEAN RAG CLEANING SOLUTION	GOOD CONDITION / CLEAN SCREEN	2
5		Remove lockout and return cell to operational state.			LOCK	GOOD CONDITION / NO ALARMS	5
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VOLVO	STANDARD MAINTENANCE PROCEDURE	SMP Nº : 00001
STATION: 2V11	TASK SMP : WEEKLY INSPECTION OF OPERATOR DISPLAY PANEL	

SUB-SYSTEM: AUTOMATED CELL - BODYSIDE SUB