

## Execute the safety line test

### Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**  
**IN THE TAC COMPUTER:**

Execute the safety line test :

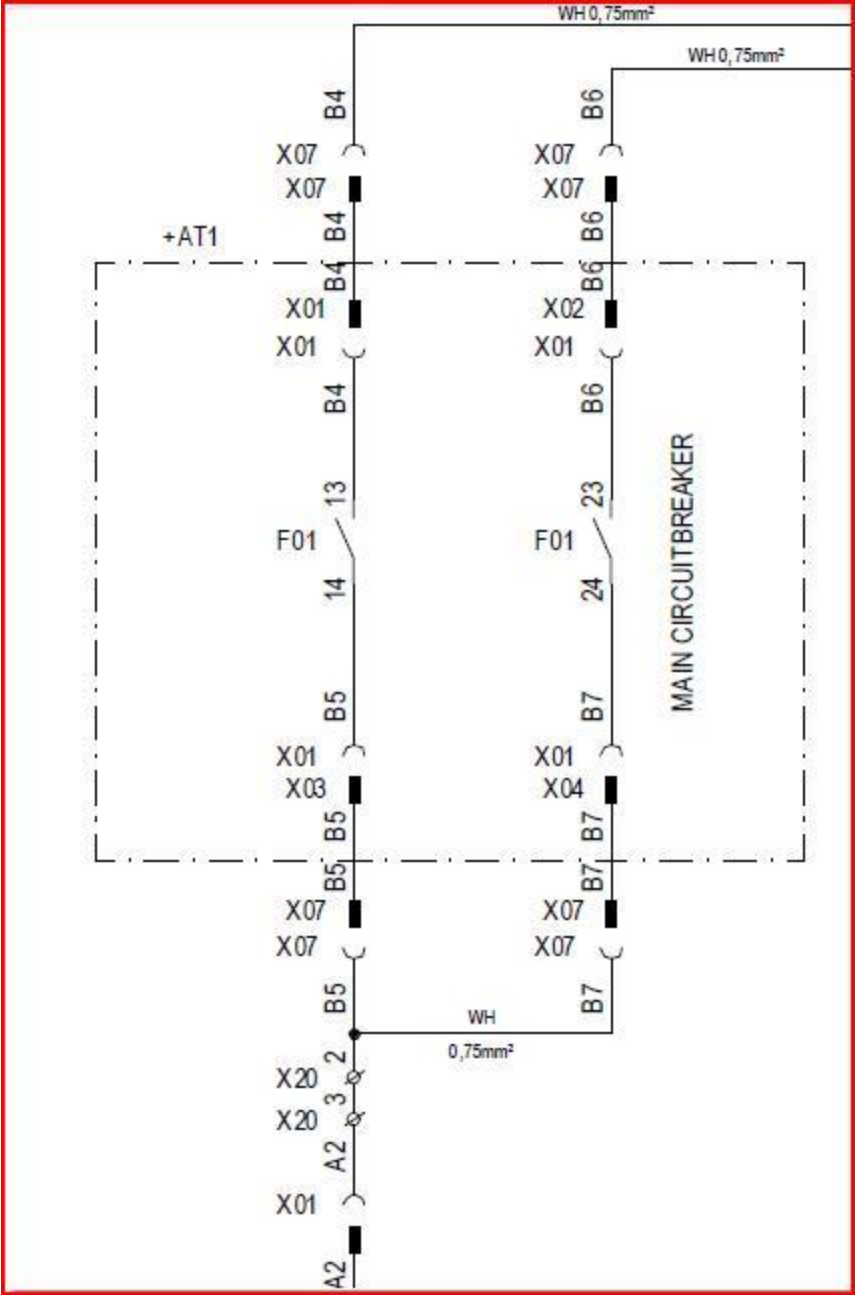
### **SERVICE MENU → MANUAL TEST → TEST SAFETY LINE**

The test will be executed within 15 seconds. If all of the safety line and emergency line is ok then +AT2-K01 and \_AN1-K07 relay is closed by reset line (841) from the TOI unit. i.e. Safety line test is completed successfully.

If there is any problem with safety line the “**750 -Safety line test fault**” alarm will rise.

### **24V DC -RESET LINE FROM TOI:**







Check the panel X07 connector for any damaged or broken pins.



**Check the emergency line and restore the connection**

**Does this solve the problem?**

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**  
**IN THE +AN1 PANEL:**

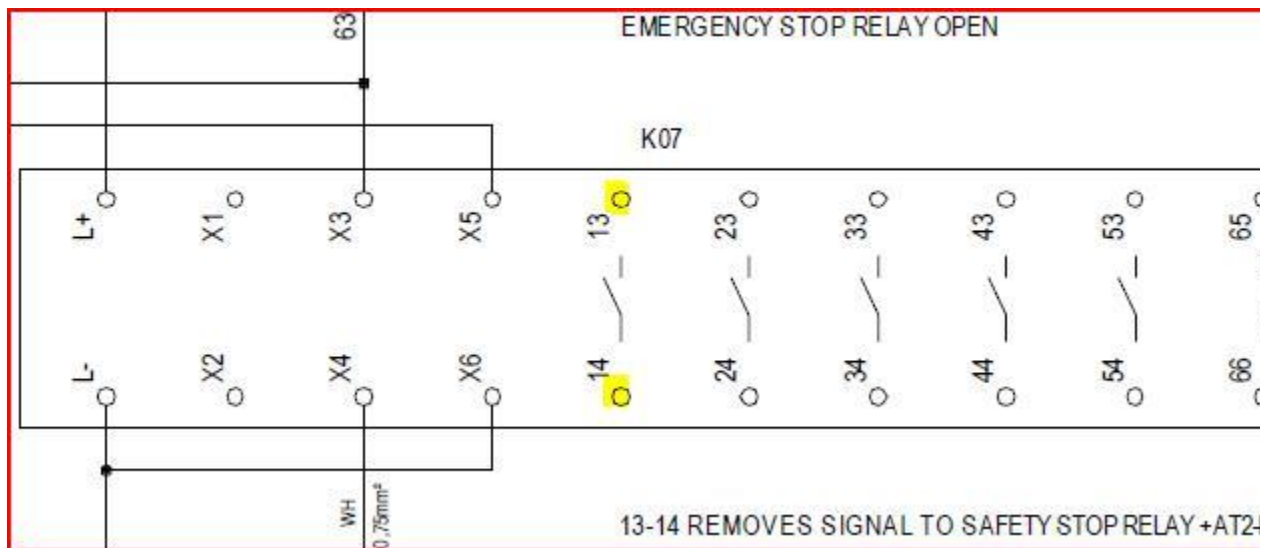
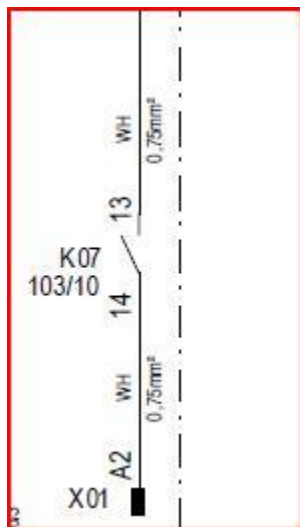
Check that the K07 emergency relay is closed.

If it is not closed, check the emergency line as per the diagram and refer to “**515 –Emergency relay open**” guidelines to restore the line.

**Relevant VGA Guide**

[515 - Emergency relay open - V82](#)

If closed check the continuity at terminals 13 to 14, and ensure the 24V DC supply going in to the tower panel.



**Replace the defective safety relay**

**Does this solve the problem?**

1] Yes

2] No

3] I don't know

- **Explanation**

**SAFETY RELAY (K01) – IN THE +AT1 PANEL:**

Check that the K01 relay input supply indicates 1st Green LED.

Check the 24VDC voltage of +X3, +X5 terminals indicate 2nd and 3rd Green LED's.

After checking the 24V DC of L+, X3, X5 terminals then 24VDC pulse given to X4 terminal means relay should be closed.

If not closed, it is likely the relay will be defective.







Relevant spare parts	
Description	Item No.
RELAY SAFETY 3TK2806-OB4 24VDC 5NO+1NC	<a href="#">60004996</a>

### Replace the defective vibration switch

#### Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

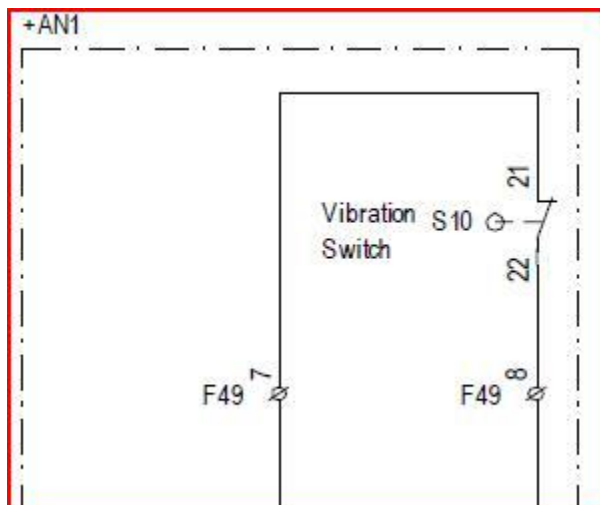
- **Explanation**  
**VIBERATION SWITCH IN THE NACELLE :**

Check for a loose connection at the vibration switch.

Check that the vibration switch operates smoothly.

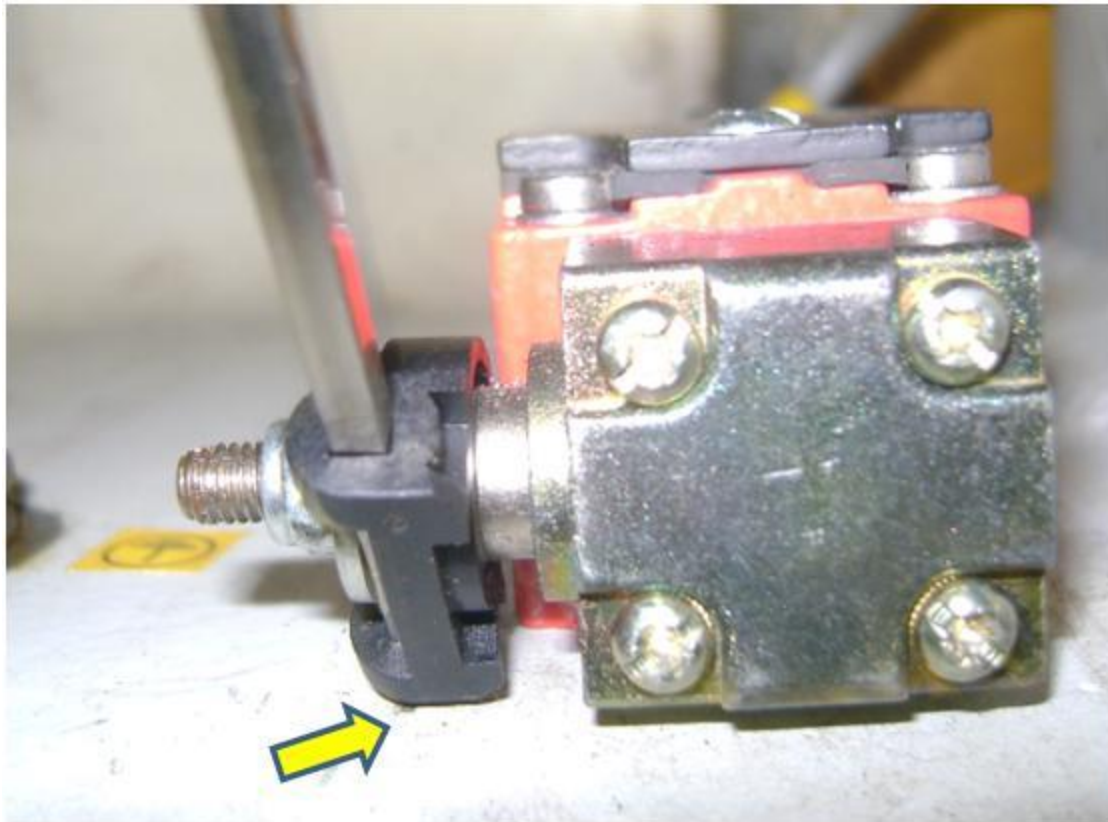
Replace the switch if it is damaged or defective.

Also check varistor box F49 (MkIII+) and replace it if damaged or defective





Check the switch operation, check for any obstruction to the switch lever.



Relevant spare parts	
Description	Item No.
VIBRATION BALL NM600/750/900	<a href="#">60039198</a>

**Replace the defect platform switch**

**Does this solve the problem?**

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**  
**PLATFORM SWITCH:**

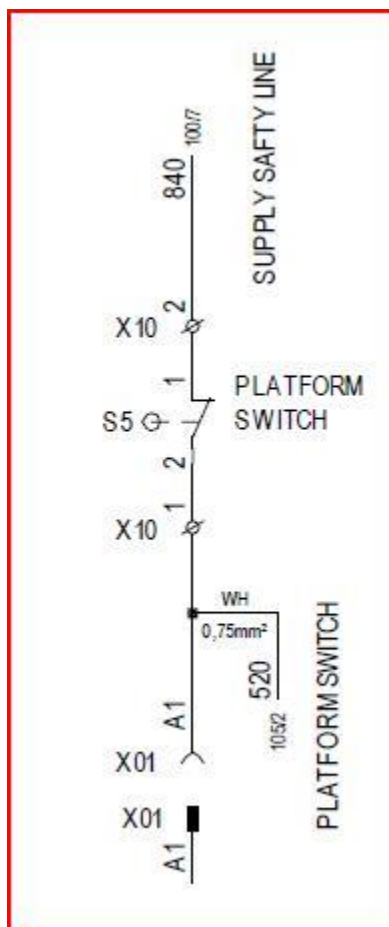
Check the platform switch for damage or loose connections.

Verify the 24V DC supply INPUT / OUTPUT.

Check the cable for wear or damage. If defective replace the cable.

If the platform switch is defective, replace with new.

Ensure feedback terminal 520 is properly connected at the tower TOI.





Relevant spare parts	
Description	Item No.
PLATFORM SWITCH COMPLETE w. FI (With fitting and cable 30 m).	<a href="#">60018326</a>
ENDSTOP S 6021190100 GC-SU1-FF ( Switch alone)	<a href="#">60009255</a>

**Check and replace the defective TAC84 or TAC85 Module**

**Does this solve the problem?**

1] Yes

2] No

3] I don't know

- **Explanation**

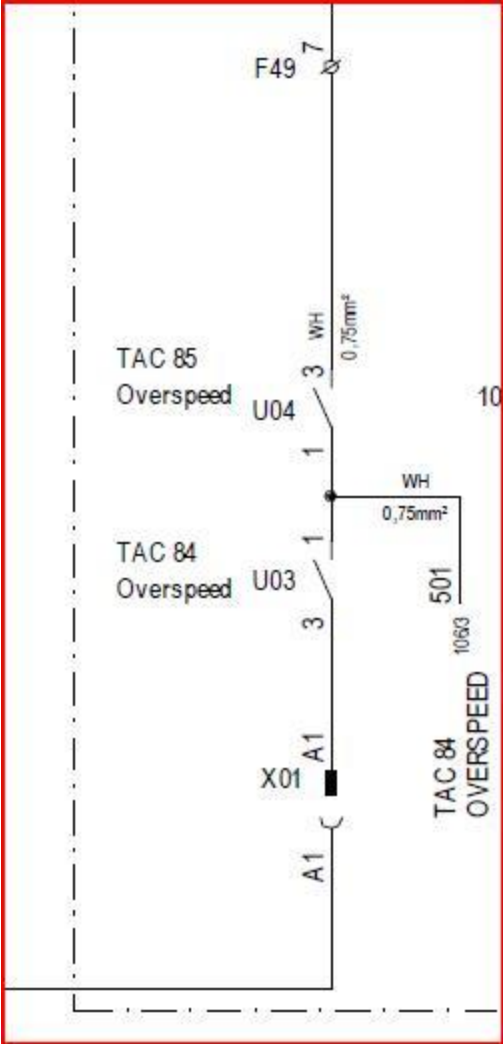
**TAC84 & TAC85 - IN THE +AN1 PANEL:**

Check the TAC84 and TAC85 Modules and cables for loose or damaged connections.

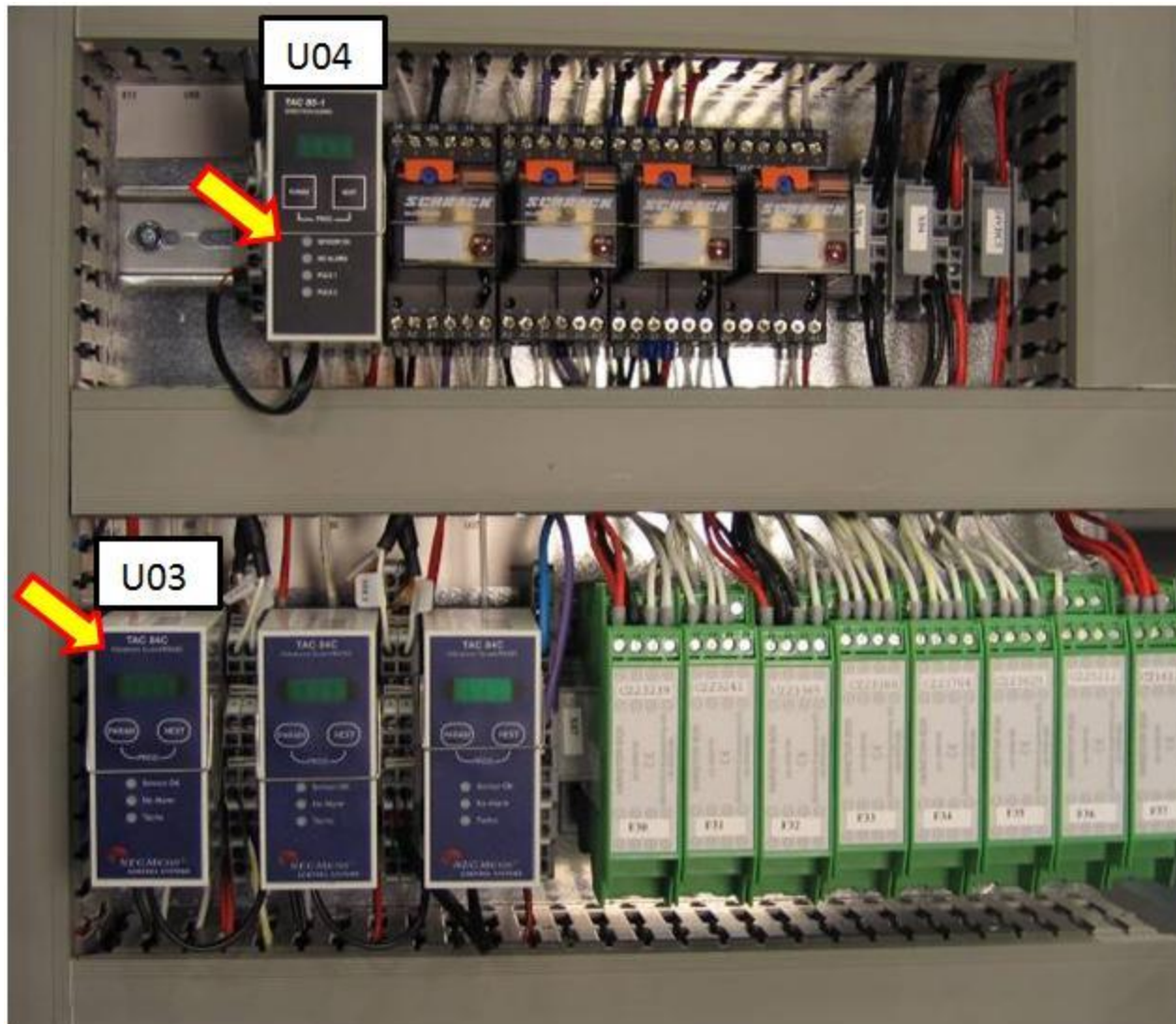
If the TAC84 or TAC85 modules are found to be defective, replace with new.

Check the TAC84 and TAC85 module parameters as per instructions:

Relevant documentation	
Description	DMS No.
Settings for TAC 84 Edgewise blade vibrations	<a href="#">D17000068</a>
Also refer TAC84 User manual	<a href="#">D5002041</a>
Settings for TAC 85 Over speed guard	<a href="#">D17000069</a>







Relevant spare parts	
Description	Item No.
TAC 84C VIB GUARD 2 FILTERS	<a href="#">51701001</a>
TAC 85-1 DIRECTION GUARD VWS	<a href="#">51700402</a>

## Replace the defective tower TOI

### Does this solve the problem?

1] Yes

2] No

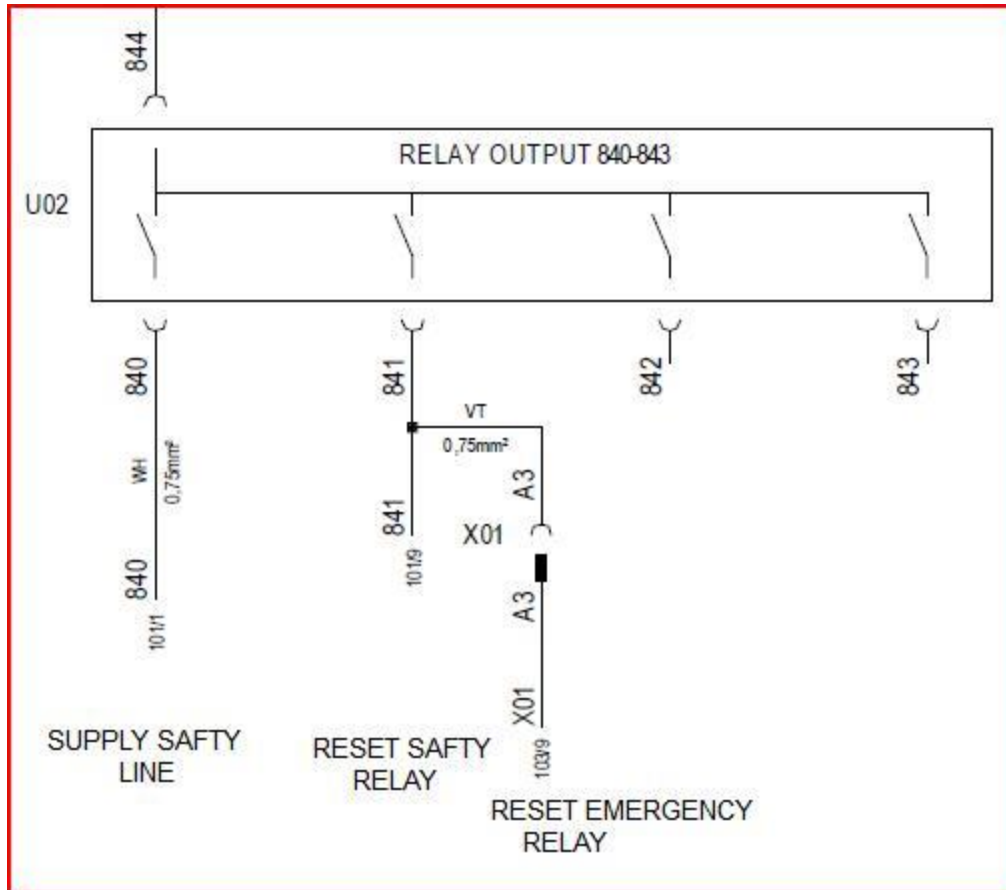
3] I don't know

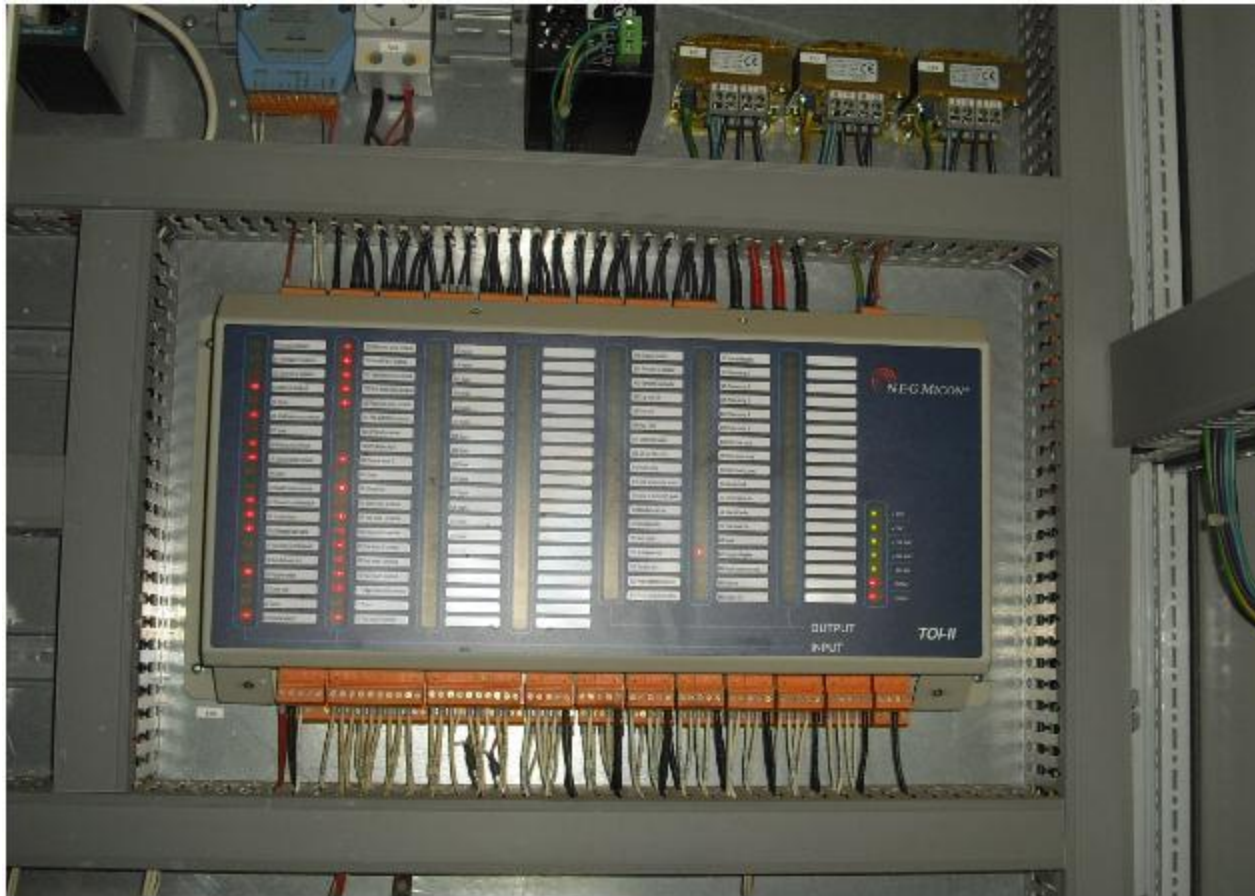
- **Explanation**  
**IN THE +AT2 PANEL:**

Check the loose connection in safety line terminals,

Ensure the 24V DC supply from Tower TOI relay output 840 and 841(**Turbine reset**)

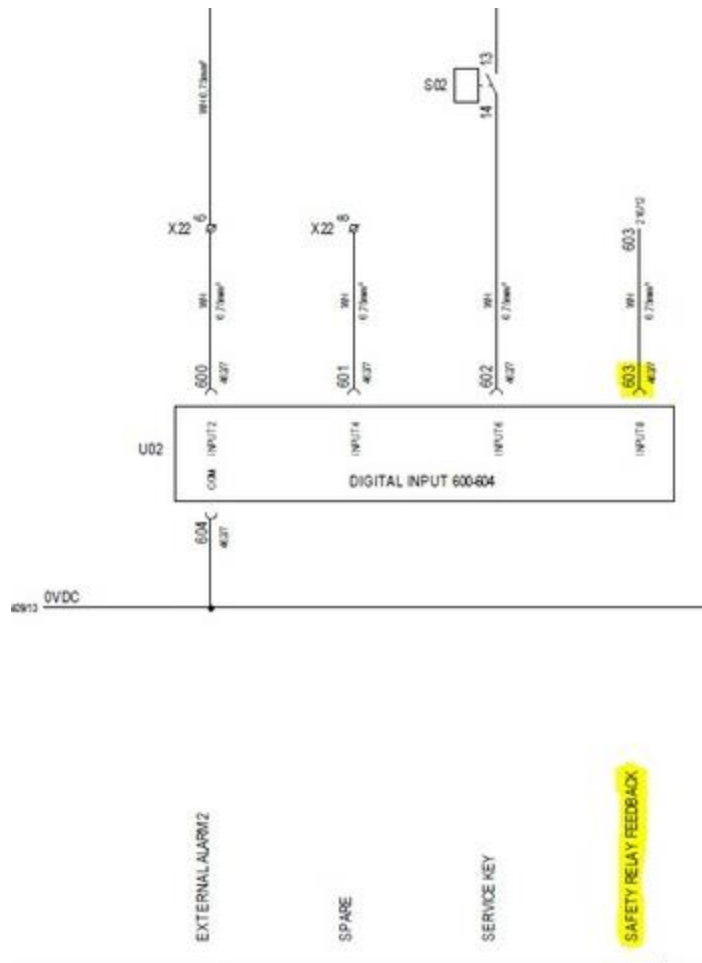
Relevant documentation	
Description	DMS No.
MK1 – Emergency Line Diagram	<a href="#">6012952</a>
MK2 – Emergency Line Diagram (50 HZ)	<a href="#">6014867</a>
MK2 – Emergency Line Diagram (60HZ)	<a href="#">6010124</a>
MK3 & ABOVE – Emergency Line Diagram (50HZ)	<a href="#">6016281</a>
MK3 & ABOVE – Emergency Line Diagram(60HZ)	<a href="#">6016283</a>





Replace the tower TOI if it is found to be defective.

Check the 24V supply at TOI terminal 603 and ensure LED has indication, replace the TOI, if LED is not 'ON'



Relevant spare parts	
Description	Item No.
TOI-II INTERF NM1500 TOWER	<a href="#">51701501</a>

**NOTE:** Reset safety line -24V DC voltage comes when the turbine reset time only