Cheat Sheet #7 How to create an Energy Isolation (Lockout/ Tagout) Permit in NS5

The energy isolation (**EI**) procedure is designed to prevent injuries and deaths caused by accidental start up of machinery during maintenance or servicing. All electrical, mechanical, hydraulic, and pneumatic systems including secondary power supplies need to be isolated prior to starting work. All electrical lines must be locked and tagged.

Machinery needs to be not only turned off, but also disengaged or de-energized AND tested to be sure it cannot be accidentally started.

The permit needs to be documented in the NS5 work order and a copy posted at the work site.

Before work begins, an energy isolation permit must be filled out by the crewman doing the work and signed by the Chief Engineer or Port Engineer. All TDI permits are posted on the TDI Forms page. http://linux.geodatapub.com/publicweb/client%20TDI%20forms.html

The Energy Isolation permit is the ONLY permit that is valid for more than 12 <u>hours</u>. Quite often you will be waiting on parts or contractors for weeks or months to repair equipment. The EI permit can be open indefinitely since that equipment cannot be operated until repaired.

Remember to document the work order with updates to repair status: parts ordered, received, installed, etc. until the repair is complete.

Open El Permits & Engineer Handover

If you have equipment locked out or tagged out at the time of your Engineer Handover, the engineer who opened the permit will need to close his permit out and the new engineer must create and sign a new permit. (The original NS5 work order will not change.) This is documented on the Engineer's handover.

To Create the Work Order: Log in to NS5 and open the Maintenance and Purchasing module.

If creating a new work order, click the **New Work Order** icon from the **Maintenance and Purchasing** window toolbar. Otherwise, create the work order from a standard job.



The New Work Order window opens.

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	Ship : R	RYLAN T		Perform By : 🚾)/Crew	Priority : D	~		PM Job
wo	/SR No. :	400918		Title :					
Sch	eduled :	11/17/2008		Due :		Equipment :			
Com	pleted :			Ext :		Counter :		Event :	

For Title on new jobs, put "EI- followed by a short description of the work to be done".

Some examples would be:

EI-A FRAME- REPAIR HYDRAULIC CONTROLS or

EI-STBD GENERATOR- REPLACE MOTOR

Next, go to the **Equipment** field and click on the button to the right. You will get a list of ship's systems. Click on the plus sign to the left of the system to drill down to the components and parts of the system.

	🔚 [14] Equipment Explorer	×
	<u>File Open Find View H</u> elp	
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	BRIDGE NAV COMMS	
	COMPRESSED AIR SYSTEM	
Equipment :	E GUIPMENT	

Drill down until you find the part you are repairing and click on the box next to it to select. This step links the job to the maintenance history of that equipment so you can easily find it in the future.



If the equipment is not listed, e-mail me at <u>shannonsmith@tdi-bi.com</u> and tell me what needs to be added and where. Leave the **Equipment** field blank in the meantime.

In the **Description** field, put a summary of the work to be done and then write "Permit filed on Bridge" followed by your name and the date.

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Description	Admin Info	Materials	Labor	1

COMPLETELY REPLACED MOTOR WITH NEW UNIT. PERMIT FILED ON BRIDGE. SHANNON 19 NOV 2010

When finished, the work order should look something like this:

📧 Work Order - New				_ 2
<u>File Process Descrip</u>	ition <u>R</u> eports <u>H</u> elp			
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WO/SR No. :	817	Title : EI-STBD GENERATO	R- REPLACE MOTOR	
Scheduled : 11/	18/2010 🔟	Due :	Equipment : GENERATOR #1 STBD	
Completed :		Ext :	Counter : Event :	
Messares	Friuipment/Spaces	File Attachments	Readings CAR's Failures	Sub-Items
Description	Admin Inf	o Materials	Labor Status	Findings
COMPLETELY REPLAC	ED MOTOR WITH NEW UNIT	r. Permit filed on Bridge. Sh/	ANNON 19 NOV 2010	

Remember to go back and write the work order number on the top of the permit:

0		Ener	gy Isolation Pe	rmit to Work			
(Al	(All parts of this permit must be completed. Any other associated documents must be linked to this permit. Emergencies or unexpected circumstance may suspend or cancel this permit.)						
2 CR/V Brooks	R/V Brooks McCall		SeoExplorer	□ R/V Gyre	C R/V Proteus		
4 Date:	Date: Time		Valid Until:	NS5 WO #			

When the work has been completed, the permit signed to closure and filed on the bridge and all the locks/ tags removed by authorized personnel, you may complete the work order.