



台灣航業股份有限公司

TNC

Taiwan Navigation Co., Ltd

2020船舶航行資料紀錄器技術研討會-台灣航業

航務部 紀華傑 副理
工務部 鄭啓佑 課長

大綱



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- 二、案例分享
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船隊VDR型號



船名	建造年	廠牌型號
台揚 M.V. "Tai Hawk"	2004	JRC
台裕 "Tai Prosperity"	2005	JCY-1700
台誠、台勇 M.V. "Tai Honestly", "Tai Hunter"	2007	
台昇 M.V. "Tai Promotion"	2005	DANELEC DM 100
台旺、台達 M.V. "Tai Shine", "Tai Success"	2012&2013	FURNO VR-3000
台鴻、偉、茂及輝 M.V. "Tai Splendor", "Tai Summit", "Tai Spring", "Tai Star"	2015~2016	JRC JCY-1900
台基、慶、興及慧 M.V. "Tai Keystone", "Tai Kudos", "Tai Kingdom", Tai Knowledge"	2017	

M.V. “Tai Hunter”-2019年8月擱淺



- 地點:寧德及福州交界水域
- 事故:因讓船未注意海圖警示該區域底下之礁岩，導致擱淺事故。
- 事故調查:各相關單位皆須藉由VDR回放作為相關調查證據。



M.V. "Tai Hunter"-2019年8月擱淺



M.V. “Tai Hunter”-2019年8月擱淺



- 該輪VDR為JRC JCY-1700，依據廠家說明存取VDR紀錄。

1) If it is possible to continue a voyage by a slight accident

Step.	Actions	Operation of internal OPERATION PANEL BOARD in RCU	Ref.
1	Stop recording data onto the PC CARD when voyage is stopped by an accident occurrence.	Press the BACKUP STOP SWITCH. Make sure that the PC CARD LED turns off.	Section 1.4.3
2	Take out the PC CARD.	Press the PC CARD EJECT BUTTON.	Section 1.4.3
3	Copy the record data from PC CARD to HDD of PC.		Section 1.4.3
4	Return the PC CARD to RCU after copying	Make sure that the PC CARD LED lights up.	Section 1.4.3

M.V. “Tai Hunter”-2019年8月擱淺



● 儲存及回放:

1. 建議備有 PC CARD READER
2. 委請廠家提供 [playback software](#)
3. 如靠方便港口，委託專業廠家協助



M.V. “Tai Promotion”-VDR故障



- 狀況:該輪於西雅圖安排年檢時，VDR發現故障，且該輪已完貨準備離港。
- 經過:緊急聯繫專業廠家了解故障原因，判定故障狀況，並了解配套措施，以向旗國順利取得豁免。

故障問題:Well noted this urgent cases by this morning via calls, we did contact with VDR Maker: Danelec and they did received this case from Mackay engineer and learn that No.2 RVI (for ECDIS image) is working intermittent, this will need replace the RVI Hardware. Well noted vessel will calling China area by next voyage and we do have full spare parts In our China stock and assure can be fixed that problem.

替代方案:Vessel's VDR equipped with 2 sets RVI, (No.1 for Both X-Band & S-Band Radar / No.2 for ECDIS), now VDR only No.2 RVI working intermittent. So that VDR will fully recording the both Radar image with No.1 RVI. For the ECDIS image, that can rely on ECDIS built-in 90Days playback record storage, if any accident during voyage then you can retrieve the ECDIS complete data (90Days).

M.V. “Tai Promotion”-VDR故障



2.1.6 Remote Video Interface (RVI)

The RVI is optional equipment. An RVI may be used to capture video from, for example, a RADAR which is unable to send images to the VDR using Ethernet; i.e. typically older equipment. The RVI must be installed indoors, normally close to the RADARs. It must be connected to the DAU with a cable which may be up to 100m in length.

解決:

1. 基於提供備案及解釋該故障功能為非法定項目，故順利取得旗國豁免信函。
2. 驗船師核發短證。
3. 順利開航。

M.V. “Tai Hawk”-PSC缺陷



事故:該輪VDR顯示ERRO信號，於卡達港口遭PSC開缺。

根源:

1. DAU ERRO亮燈主因為連結至VDR相關航儀設備遭關閉。
2. 因靠泊時公司政策要求將相關航儀設備關閉以延長設備壽命，且船上不知其ERRO警示碼原意，無法立即處理。
3. 預防:技術通告型式，通告船隊。





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Thank you for your attention